

<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p style="text-align: center; font-weight: bold; font-size: 1.2em;">UTILITY PATENT</p> <p style="text-align: center; font-weight: bold; font-size: 1.2em;">APPLICATION TRANSMITTAL</p> <p style="text-align: center; font-size: 0.8em;">(Only for new nonprovisional applications under 37 CFR 1.53(b))</p> </div> <div style="width: 50%;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Attorney Docket No.</td> <td style="width: 33%;">981391</td> <td style="width: 33%;">Total Pages</td> <td style="width: 33%;"></td> </tr> <tr> <td colspan="4">First Named Inventor or Application Identifier</td> </tr> <tr> <td colspan="4">Hiroyuki SAITO, Tomoe NAGUMO and Katsuyoshi MORI</td> </tr> <tr> <td colspan="4">Express Mail Label No.</td> </tr> </table> </div> </div>	Attorney Docket No.	981391	Total Pages		First Named Inventor or Application Identifier				Hiroyuki SAITO, Tomoe NAGUMO and Katsuyoshi MORI				Express Mail Label No.				<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Check Box, if applicable [    ] Duplicate</p> </div> <div style="width: 50%;"> <p style="text-align: right; font-size: 0.8em;">JCS11 U.S. PTO 09/199566</p> </div> </div>
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Express Mail Label No.																	
<p>APPLICATION ELEMENTS FOR:  <b>PASSPORT TRANSACTION APPARATUS, PASSPORT  TRANSACTION METHOD, AND PASSPORT  TRANSACTION SYSTEM</b></p>		<p>ADDRESS TO:    Assistant Commissioner for Patents  BOX PATENT APPLICATIONS  Washington, D.C. 20231</p>															
<p>1. [XX] Fee Transmittal Form (Incorporated within this form)  (SubmIt an original and a duplicate for fee processing)</p>																	
<p>2. [XX] Specification <span style="float: right;">Total Pages [94]</span></p>																	
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<p>a. [XX] Newly executed (original)</p>																	
<p>b. [    ] Copy from prior application (37 CFR 1.63(d))  (for continuation/divisional with Box 17 completed).</p>																	
<p>i. [    ] <u>Deletion of Inventor(s)</u>  Signed statement attached deleting inventor(s) named in prior application,  see 37 CFR 1.63(d)(2) and 1.33(b).</p>																	
<p>5. [    ] Incorporation by reference (useable if box 4b is checked)  The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under  Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby  incorporated by reference therein.</p>																	
<p>6. [    ] Microfiche Computer Program (Appendix)</p>																	
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<p>8. [XX] Assignment Papers (cover sheet and document(s))</p>																	
<p>9. [    ] 37 CFR 3.73(b) Statement (when there is an assignee) <span style="float: right;">[XX] Power of Attorney</span></p>																	

# UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications  
under 37 CFR 1.53(b))

Attorney Docket No.

981391

First Named Inventor or Application Identifier

**Hiroyuki SAITO, Tomoe NAGUMO  
and Katsuyoshi MORI**

PAGE 2 OF 3

10. ☐ English translation Document (if applicable)

11. ☒ Information Disclosure Statement

☒ Copies of IDS Citations (PTO-1449 w/2 refs.)

12. ☐ Preliminary Amendment

13. ☒ Return Receipt Postcard (MPEP 503)

14. ☐ Small Entity Statement(s)

☐ Statement filed in prior application  
Status still proper and desired.

15. ☒ Claim for Convention Priority

☐ [1] Certified copy of Priority Document(s)

a. Priority of \_\_\_\_\_ application no. \_\_\_\_\_ filed on \_\_\_\_\_ is claimed under 35 USC 119.

The certified copies/copy have/has been filed in prior application Serial No. \_\_\_\_\_.

(For Continuing Applications, if applicable).

16. ☐ Other \_\_\_\_\_

17. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information:

☐ Continuation ☐ Division ☐ Continuation-in-part (CIP) of prior application no. \_\_\_\_/\_\_\_\_

FEE TRANSMITTAL	Number Filed	Number Extra	Rate	Basic Fee
The filing fee is calculated below				\$760.00
Total Claims	37 - 20	17	x \$18.00	306.00
Independent Claims	8 - 3	5	x \$78.00	390.00
Multiple Dependent Claims			\$260.00	
Basic Filing Fee				1456.00
Reduction by 1/2 for small entity				
Fee for recording enclosed Assignment			\$40.00	40.00
TOTAL				\$1496.00

**UTILITY PATENT  
APPLICATION TRANSMITTAL**

(Only for new nonprovisional applications  
under 37 CFR 1.53(b))

Attorney Docket No.

**981391**

First Named Inventor or Application Identifier

**Hiroyuki SAITO, Tomoe NAGUMO  
and Katsuyoshi MORI**

**PAGE 3 OF 3**

☒ [XX] A check in the amount of \$1,496.00 is enclosed to cover the filing fee of \$1,456.00 and the assignment recordation fee of \$40.00.

☐ [ ] Please charge our Deposit Account No. **01-2340** in the total amount of \_\_\_\_\_ to cover the filing fee and the \_\_\_\_\_ assignment recordation fee. A duplicate of this sheet is attached.

☒ [XX] The Commissioner is hereby authorized to charge payment for any additional filing fees required under 37 CFR 1.16 or credit any overpayment to Deposit Account No. **01-2340**. A duplicate of this sheet is attached.

**18. CORRESPONDENCE ADDRESS**

**ARMSTRONG, WESTERMAN, HATTORI  
McLELAND & NAUGHTON  
1725 K Street, N.W. Suite 1000  
Washington, D.C. 20006  
Telephone: (202) 659-2930  
Facsimile: (202) 887-0357**

**SUBMITTED BY**

Typed or Printed Name **Donald W. Hanson**

Reg. No. **27,133**

Signature



Date: **November 25, 1998**

DWH/yap

**PASSPORT TRANSACTION APPARATUS,  
PASSPORT TRANSACTION METHOD, AND PASSPORT TRANSACTION SYSTEM**

FIELD OF THE INVENTION

5           The present invention relates to a passport transaction apparatus, a passport transaction method and a passport transaction system for processing a passport right from its application to its issuance in batch.

10   BACKGROUND OF THE INVENTION

          Nowadays in Japan, 10 million or more people go abroad on business or for vacation every year, and this situation is called as borderless society. To go abroad, each person is required to have a passport, and to apply for a passport, it  
15 is necessary to get certificates (resident card, a copy (an abstract) of the resident's census register) directly or by mailing from a local government office.

          When applying for a passport, an applicant is required to file his own photograph, and some document for identifying  
20 himself (such as a driver's license). A photograph can easily be taken, for instance, at a passport center, or at a photographer's shop.

          When the certificates and the photograph are ready, an application for a passport is made at a passport center. When  
25 issuance of the passport is permitted, the passport office sends

a postcard which is exchangeable with a passport. Therefore, the applicant has to go again to the passport center carrying the passport and a seal to identify the applicant in order to receive the passport.

5 In recent years, the passport centers have been opened at many places and an applicant can submit a necessary application at any passport center which is easily accessible, and thus, convenience in obtaining a passport has substantially been improved. However, to obtain the certificates for  
10 passport application, still the applicant must go to facilities other than the passport center as ever. Thus, a long time and efforts are required for passport transaction, which is troublesome for businessmen who have little free time or old or handicapped people who are socially weak. There is a strong  
15 social need for simplification of passport transaction.

The present invention was made to solve the problems as described above, and it is an object of the present invention to make it possible to execute transactions right from passport application up to its issuance more quickly by simplifying  
20 passport transactions and to provide a passport transaction apparatus, a passport transaction method, and a passport transaction system not requiring any troublesome efforts for an application for a passport.

In the present invention, an image of an applicant, data  
25 required for passport application, sign of the applicant are

inputted and transmitted to a center, and determination as to whether the applied passport is to be issued or not is made according to the data recorded for the applicant in a resident's database connected to the center as well as to various types  
5 of input data. Thus, all information required for application and issuance of a passport can be inputted at one place and one time, whereby passport transaction can be simplified, and this enables quicker transactions from application for a passport to issuance thereof and a reduction of workload to the  
10 applicant.

In the present invention, an image (a photograph) of an applicant, data required for passport application, signature of the applicant are inputted and transmitted together with certification data for the applicant fetched from a resident  
15 database to the center, and it is determined whether the applied passport is to be issued or not according to each of the various types of data. Thus, all information required for application and issuance of a passport can be inputted at one place and one time, whereby passport transaction can be simplified, which  
20 enables quicker transactions from application for a passport up to issuance thereof and reduction of workload to the applicant.

In the present invention, whether the passport is to be issued or not is determined at a center according to data  
25 inputted by an applicant, and when it is determined that the

applied passport is to be issued, an image of the applicant is inputted and a passport with the image and contents of description for a passport printed thereon is issued on the spot. Thus, passport transaction can be made on the spot through communication with the center, whereby passport transaction is simplified, which enables quicker transactions from application for a passport up to issuance thereof and reduction of workload to the applicant.

In the present invention, data required for issuance of a passport and the applicant are certified by data stored in a storage medium to determine whether a applied passport is to be issued or not, and when it is determined that the applied passport is to be issued, an image of the applicant is issued and a passport with the image and contents of description for the passport printed thereon is issued on the spot. Thus, passport transaction can be completed on the spot by certifying an application for a passport with data stored in a storage medium, whereby passport transaction is simplified, which enables quicker transactions from application for a passport up to issuance thereof and reduction of workload to the applicant.

In the present invention, when a passport is reissued, data required for current passport application is modified by using data for the passport already issued. Thus, there is no need to input all the required data again when the same passport

is reissued, and efficiency for inputting data required for passport transaction can be improved by utilizing the data for the passport already issued.

In the present invention, an image of an already issued  
5 passport is read, and characters in the image are recognized in order to use as an input data. Thus, workload as that required in key entry is not required and the efficiency in data input can be improved by utilizing a passport which has been issued already.

10 In the present invention, authorization data for identifying an applicant when a passport is to be issued on a later day is printed, and it is determined whether an applied passport is to be issued or not is made according to the authorization data, and the passport is issued when it is  
15 determined so. Thus, it is possible to easily identify an applicant using this receipt.

In the present invention, an image of an applicant is inputted using a digital camera, so that a still image can be obtained easily and hence a photograph for pasting on the  
20 passport can be prepared at a spot.

In the present invention, a previously prepared message is outputted as a voice according to progress in procedure for passport transaction. Thus, passport transaction can be executed even in the absence of an operator.

25 In the present invention, display and data input are



achieved with a display unit based on the integrated touch panel system. Thus, operations for passport transaction can easily be made while watching a display screen.

In the present invention, a charge for the passport application is collected in cash. Thus, the same functions as those of a vending machine can be realized.

In the present invention, a charge for passport application is processed through communication with a financial institution, so that the same functions as those of a cash dispenser can be realized. Thus, it is possible to execute passport transaction even if an applicant does not have cash.

In the present invention, data for issuing a certificate relating to an applicant is read out through a center, and the certificate is printed according to the data. Thus, it is possible to provide such documents as a resident's certificate or a copy of an applicant's censor register.

In the present invention, data input is executed from a storage medium for storing therein data required for passport transaction. Thus, the efficiency in data input can be improved.

In the present invention, the storage medium is an IC card. Thus, identification of an applicant can be made with enhanced security.

In the present invention, data for identifying an applicant is inputted, whether the passport is to be issued or

not is determined by accessing the center and using the inputted data, and when it is determined that the applied passport is to be issued, an image (a photograph) of the applicant is inputted, and a passport with the image and contents of description of the passport printed thereon is issued. Thus, the passport transaction can be made on the spot through communication with a center, and hence the passport transaction is simplified, which enables quicker transaction from passport transaction up to issuance thereof and also reduction of workload to an applicant.

In the present invention, data required for issuance of a passport and data for identifying an applicant of the passport are read out from a storage medium, determination as to whether an applied passport is to be issued or not is made according to the data, and when it is determined that the applied data is to be issued, an image of the applicant is inputted and a passport with the image and contents of description for passport printed thereon is issued. Thus, passport transaction can be executed on the site by identifying an applicant with data stored in a storage medium, and with this feature passport transaction is simplified, which enables quicker transactions from passport application to issuance thereof and also reduction of workload to the applicant.

In the present invention, when examination for issuance of a passport is executed between a passport transaction

apparatus and a center, determination as to whether an applied passport is to be issued or not is made at the center using the data required for passport transaction inputted by the applicant at the passport transaction apparatus, and when it is determined that the applied passport is to be issued, an image of the applicant is inputted at the passport transaction apparatus and a passport with the image and contents of description for passport printed thereon is issued on the spot. Thus, passport transaction can be made on the spot through communications between the passport transaction apparatus and the center, and hence passport transaction is simplified, which enables quicker transaction from passport application up to issuance thereof and also reduction of workload to an applicant.

In the present invention, when examination for issuance of a passport is executed in the passport transaction apparatus and first and second centers, verification of an applicant is made at the first center using data required for passport transaction inputted by the applicant at the passport transaction apparatus, determination as to whether the applied passport is to be issued or not is made at the second center, an image of the applicant is inputted at the passport transaction apparatus when it is determined that the applied passport is to be issued, and a passport with the image and contents of description for passport printed thereon is issued on the spot. Thus, the passport transaction can be made on

the spot through communication between the passport transaction apparatus and the centers, and hence passport transaction is simplified, which enables quicker transactions from passport application up to issuance thereof and also reduction of workload to the applicant.

In the present invention, an image of the applicant is inputted and transferred to a center. Thus, progress in the procedure for the passport transaction made by an applicant can be monitored at the center.

In the present invention, a voice is inputted and is transferred to a center and a voice transferred from the center is outputted, so that voice communication for passport transaction can be realized between the passport transaction apparatus and the center.

In the present invention, a charge for passport application is processed in cash on the spot where a passport transaction apparatus is installed. Thus, the same functions as those of a vending machine can be realized.

In the present invention, a charge for passport application is processed through communications between a passport transaction apparatus and a financial institution. Thus, the same functions as those of a cash dispenser can be realized, and hence it is possible for an applicant to execute passport transaction even if the applicant does not carry cash.

Other objects and features of this invention will become

apparent from the following description with reference to the accompanying drawings.

#### BRIEF DESCRIPTION OF THE DRAWING

5           Fig. 1 is a block diagram showing one example of a passport transaction system according to Embodiment 1 of the present invention;

10           Fig. 2 is an external appearance view showing one example of external appearance of the passport transaction apparatus according to Embodiment 1;

            Fig. 3 is a block diagram showing one example of configuration of the passport transaction apparatus according to Embodiment 1;

15           Fig. 4 is a view showing how the data is managed at a passport center according to Embodiment 1;

            Figs. 5A to 5D are views showing a sequence of operations when applying for a new passport according to Embodiment 1;

            Figs. 6A and 6B are views showing a sequence of operations when applying for a new passport according to Embodiment 1;

20           Figs. 7A and 7B are views showing a sequence of operations when applying for a new passport according to Embodiment 1;

            Figs. 8A to 8C are views showing a sequence for operations when applying for a new passport according to Embodiment 1;

25           Figs. 9A to 9D are views showing a sequence of operations when applying for a new passport according to Embodiment 1;

Figs. 10A to 10C are views showing a sequence of operations when applying for a new passport according to Embodiment 1;

5 Figs. 11A to 11C are views showing a sequence of operations when applying for a passport according to Embodiment 1;

Figs. 12A and 12B are views showing a sequence of operations when applying for a new passport according to Embodiment 1;

10 Fig. 13 is a flow chart showing a general flow of operations according to Embodiment 1;

Fig. 14 is a flow chart showing operations for processing an application of a new passport according to Embodiment 1;

15 Fig. 15 is a flow chart showing operations for processing an application for a new passport according to Embodiment 1;

Fig. 16 is a flow chart showing operations for processing an application of a new passport according to Embodiment 1;

Figs. 17A to 17D are views showing a sequence of operations for reissuing a passport according to Embodiment 1;

20 Figs. 18A and 18B are views showing a sequence of operations for reissuing a passport according to Embodiment 1;

Figs. 19A to 19C are views showing a sequence of operations for reissuing a passport according to Embodiment 1;

25 Figs. 20A to 20D are views showing a sequence of operations for reissuing a passport according to Embodiment 1;

Figs. 21A to 21C are views showing a sequence of operations for reissuing a passport according to Embodiment 1;

Fig. 22 is a flow chart showing the processing for reissuing a passport according to Embodiment 1;

5 Figs. 23A to 23D are views showing a sequence of operations for receiving a passport according to Embodiment 1;

Figs. 24A and 24B are views showing a sequence of operations for receiving a passport according to Embodiment 1;

10 Figs. 25A to 25C are views showing a sequence of operations for receiving a passport according to Embodiment 1;

Fig. 26 is a flow chart showing the processing for receiving a passport according to Embodiment 1;

Fig. 27 is a flow chart showing the processing for receiving a passport according to Embodiment 1;

15 Fig. 28 is a view showing a variant of a method of storing a photograph and a signature for a passport in Embodiment 1;

Figs. 29A to 29D are views showing a sequence of operations for applying a new passport according to Embodiment 2;

20 Fig. 30 is a flow chart showing operations for processing an application for a new passport according to Embodiment 2;

Fig. 31 is a flow chart showing operations for processing an application for a new passport according to Embodiment 2;

25 Figs. 32A to 32D are views showing a sequence of operations for reissuing a passport according to Embodiment 2;

Figs. 33A to 33D are views showing a sequence of operations when receiving a passport according to Embodiment 2;

Fig. 34 is a flow chart showing operations when receiving a passport according to Embodiment 2;

Fig. 35 is a block diagram showing an example of a passport transaction system according to Embodiment 3 of the present invention;

Fig. 36 is a flow chart showing operations for processing an application of a new passport according to Embodiment 3;

Fig. 37 is a flow chart showing the processing for reissuing a passport according to Embodiment 3;

Fig. 38 is a flow chart showing the processing for receiving a passport according to Embodiment 3; and

Fig. 39 is a view showing how the data is stored in an IC card according to Embodiment 4 of the present invention.

#### DESCRIPTION OF THE PREFERRED EMBODIMENT

Detailed description is made for preferred embodiments of a passport transaction apparatus, a passport transaction method, and a passport transaction system each according to the present invention with related drawing.

At first, a passport transaction system according to Embodiment 1 of the present invention is described. Fig. 1 shows an example of configuration of the passport transaction



system according to Embodiment 1 of the present invention. This passport transaction system comprises, a bank center 3, a credit company center 4, a local government office 5, a passport center 6 and passport transaction apparatuses 1A-1 to 1A-N (N: Natural number) connected to a network 2.

The bank center 3 comprises a host device 31 and a customer database 32 for constructing a database under control by the host device 31 (described as customer DB hereinafter). This bank center 3 executes, in addition to the ordinary work done in a bank, such operations as authorization of drawing money requested from each of the passport transaction apparatuses 1A-1 to 1A-N through the network 2 using the customer DB 32 and returns a result of authorization. The customer DB 32 is constructed with the data registered at the bank center 3.

The credit company center 4 comprises a host device 41 and a customer DB 42 for constructing a database under control by this host device 41. This credit company center 4 executes, in addition to ordinary credit jobs, such operations as authorization of drawing of money with a card requested from the passport transaction apparatuses 1A-1 to 1A-N through the network 2 using the customer DB 42 and returns a result of authorization. The customer DB 42 is constructed with the data registered at the credit company center 4.

The local government office 5 comprises a host device 51 and a customer DB 52 for constructing a database under control

by this host device 51, and the host device 51 is connected via the communication line 7 to a host device 61 at the passport center 6. This local government office 5, in addition to ordinary work done in the local government office, transmits data from the customer DB 52 through the communication line 7 in response to a request from the passport center 6. The customer BD 52 is constructed with the data registered in the local government office 5. Resident certificates or copies (abstracts) of censor register required for identifying passport applicants are registered in the customer DB 52.

The passport center 6 comprises a host device 61 and a customer DB 62 for constructing a database under control by this host device 61. This passport center 6 executes, in addition to ordinary work like examination of passport applications, examination of passport applications requested from the passport transaction apparatuses 1A-1 to 1A-N through the network 2 using the customer DB 62 and returns a result of the examination

When a passport application is examined, the passport center 6 communicates through the line 7 with the host device 51 at the local government office 5 and fetches such certificates as a resident certificate or a copy of censor register (abstract thereof) in the form of electronic data from the customer DB 52.

The line 7 connects the local government office 5 (host

device 51) not only to the passport 6 (host device 61) but also to the bank center 3 (host device 31) and to the credit company center 4 (host device 41). Thus, the passport center 6 can accesses the host device 31 at the bank center 3 and the host  
5 device 41 at the credit company center 4 to fetch various types of authorization from each database.

The passport transaction apparatuses 1A-1 to 1A-N are installed for instance, at public facilities such as public halls, stations, and buildings or at convenience stores, and  
10 execute passport transactions. The passport transaction apparatuses 1A-1 to 1A-N receive a result of examination for passport application at the passport center 6 through the network 2, and issues a passport on the spot when the application is allowed. The procedure for issuance of a passport includes  
15 the procedure for issuing a new passport, the procedure for re-issuing a passport, and the procedure for later acceptance of a passport by the applicant, and also includes procedure for issuing such certificates as a resident certificate, or a copy of censor register (abstract thereof).

20 External form of the passport transaction apparatuses 1A-1 to 1A-N is explained. Fig. 2 is a view showing external appearance of a passport transaction apparatus according to Embodiment 1 of the present invention. In Fig. 2, a passport transaction apparatus 1A-n ( $n$ : Natural number,  $1 \leq n \leq N$ ) has  
25 a box-like form.

This passport transaction apparatus 1A-n has an inclined top surface inclined downward from the rear side to the front side, a touch panel display 12, a digital camera 14, a passport insertion port 26a, a card insertion port 26b, a receipt issuing port 26c, a cash inlet or outlet port 25 or the like are provided  
5 on the upper surface.

The touch panel display 12 is a unit for promoting procedure for passport transaction by touching a display screen thereof. The digital camera 14 is for monitoring applicants from  
10 a remote site (for example passport center 6) or for taking a photograph for the passport.

The passport insertion port 26a is for inserting an old passport in order to reissue a passport. The card insertion port 26b is for inserting therein a card of a financial  
15 institution such as a credit company or for inserting an IC card.

The receipt issuing port 26c is for issuing a memo or a receipt when issuing a passport. A number is printed on the memo when the passport is to be received on a later day. The Cash inlet/outlet port 25 is not for paying money with a card,  
20 but for paying a charge for issuance of a passport or a certificate in cash.

The passport transacting device 1A-n has a certificate issuing port 27 for issuing various types of printed materials such as a resident certificate or a copy of censor register  
25 (abstract thereof) and a passport issuing port 28 for issuing

a passport P therefrom or the like provided on the front surface.

A communication line 29 is provided in the lower section of the rear surface which connects the passport transaction device 1A-n to the network 2.

5 Internal configuration of the passport transaction apparatus 1A-n is explained. Fig. 3 is a block diagram showing one example of configuration of the passport transaction apparatus. The passport transaction apparatus 1A-n comprises, a speaker 11, a touch panel display 12, an autophone 13, a digital  
10 camera 14, a floppy disk deck 15, a hard disk (indicated by HD in the figure) 16, a control section 17, a passport reading unit 18a, a card unit 18b, a receipt unit 19, a cash unit 20, a printing unit 21, a communication control unit 22, a passport in issuing unit 23 and a communication line 29.

15 The speaker 11 outputs a voice guidance for procedure of passport transaction previously registered therein. The touch panel display 12 displays, as described above, an operational screen and is used in operations for passport transaction by means of touch system according to instructions provided on the  
20 operational screen. This touch panel display 12 is also used when an applicant for a passport manually makes a signature for identification of the applicant.

The autophone 13 is used when a customer does not understand how to manipulate the passport transaction apparatus  
25 or when a trouble occurs in the passport transaction apparatus.

The autophone 13 is also used when inquiring something to the passport center 6. The digital camera 14 is, as described above, used for monitoring an applicant, or for taking a photograph for passport. The floppy disk deck 15 stores therein data to be provided to the hard disk 16. A floppy disk inserted into this floppy disk deck 15 can freely be set therein or removed therefrom, so that contents of the hard disk 16 can be updated according to the necessity.

The hard disk 16 is a large-scale memory for storing the program for controlling operations of a passport transaction apparatus as a whole, and with various types of data for execution of the program. The program stored in this hard disk 16 can be rewritten by an updated program stored in a floppy disk set in the floppy disk deck 15 or an updated program received via the communication control unit 22 from the network 2. Updating of the program is executed under specified security and illegal operation by a third party are not allowed.

The control unit 17 is a unit for control of operations of a passport transaction apparatus as a whole, and executes procedure for passport transaction or the like according to a program stored, for instance in the hard disk 16. The passport reading unit 18a obtains an image of the contents of the passport fetched from the passport insertion port 26a as an image, and outputs the image data to the control section 17.

The card unit 18b is a unit for indirectly processing the

payment, read a card fetched through the card insertion port 26b and outputs the read data to the control section 17. By using a card, such operation as drawing money from an account or clearance of credit can be executed. The receipt unit 19  
5 outputs a memo or a receipt after completion of passport transaction from the receipt issuing port 26c.

The cash unit 20 is a unit for directly processing the payment, and processes for paying or receiving bills and coins, and also plays a role as a safe for bills and coins. Herein  
10 operations requiring payment of money includes payment of a charge for issuance of a passport, or a charge for issuance of such certificates as a resident certificate or a copy of censor register (an abstract thereof). The printing unit 21 is a unit for printing a resident certificate or a copy of censor register  
15 (or an abstract thereof).

The communication control unit 22 controls communications with the host device 61 at the passport center 6, host device 31 at the bank center 3, or the host device 41 at the credit company center 4 through the network 2. The  
20 passport issuing unit 23 prepares a passport by executing operations required when issuing a passport such as pasting of a photograph, and printing of necessary items and a signature, and outputs the passport from the passport issuing port 28. The line 29 is connected to the network 2 and executes data transfer  
25 to and from the network 2.

A method of managing personal data at the passport center 6 is explained. Fig. 4 is a view showing a data managing method at a passport center according to Embodiment 1 of the present invention. At the passport center 6, personal data is managed in a personal DB 62 connected to the host device 61 there. Data for 22 items is stored in this personal DB 62 as shown in Fig. 4. Items No.1 to No. 22 include, for instance, a status, a personal management number, a passport issuance number, date of issuance of a passport, a passport validity term number, applicant's censor register code, applicant's censor register data, address code, address data, name, date of birth, sex, type of code, coded data, payment method, paying financial institution code, payment flag, telephone number, E-mail address, a photograph, signature and preparatory data.

The status is data indicating, with a flag, any of the following conditions: (1) issuance permitted, (2) issuance inhibited, (3) under examination, (4) waiting for receiving a result of examination and (5) Issuance of a passport. The personal management number is a number for identifying an applicant. The passport issuance number is a serial number given to each passport in the order of issuance date. The date of issuance indicates a date of issuance of a passport. The passport validity term number indicates a validity term number of an issued passport.

The censor register code indicates a code for domicile



registered by an applicant for a passport. The censor register data indicates the applicant's domicile data. The address code indicates a code for an address where the applicant lives. The address data indicates an address of the applicant. The name  
5 indicates the applicant's name. The date of birth indicates a date (year, month and day) of the applicant. The sex indicates whether the applicant is male or female.

The type of code indicates a technology for identifying an applicant such as a figure such as PIN (Personal  
10 Identification Number), a finger print, a voice, or cornea pattern. The coded data indicates a data corresponding to any of the types described above. The payment method indicates whether the payment is to be made by cash, a cash card or by a credit card. The paying financial institution code indicates  
15 code identifying a financial institution where payment is made with a credit cash or a cash card. The payment flag is a flag indicating whether payment has been made or not.

The telephone number indicates the applicant's telephone number. The E-mail address indicates the applicant's E-mail  
20 address. The photograph is an image data obtained by photographing the applicant at the passport transaction apparatus 1A-n. The signature is a sign data obtained when the applicant makes a signature at the passport transaction apparatus 1A-n. The preparatory data is a column provided so  
25 that management data can be added later, and the item name, or

a number of preparatory items can arbitrarily be set. Each of the above items is updated when application for a passport is made at any of the passport transaction apparatuses 1A-1 to 1A-N.

5       A sequence of operations for applying for a new passport is explained. Fig. 5A to Fig. 14 show the sequence of operations for applying for a new passport. It is assumed in the following description that the touch panel display 12 is used.

10       A screen for choice of application procedure is provided initially. The initial screen displays the following three items for choice: "Application for a new passport", "Application for reissuance of a passport" and "Only accept a passport" (Fig. 5A). Any of these items can be selected by touching a corresponding transaction selection area 1201.

15       When an applicant touches a section of "Application for a new passport" in the transaction selection area, the procedure progresses according to the guidance of "Application for a new passport" displayed thereon. When an applicant touches the section for "Application for reissuance of a passport", the  
20       procedure progresses according to the guidance of "Application for reissuance of a passport" displayed thereon. When an applicant touches the section of "Only accept a passport", the procedure progresses according to the guidance of "Only accept a passport".

25       When the "Application for a new passport" is selected in

the above step, the display screen is switched to an operation screen for applying for a new passport. Namely, the operation screen displays the 4 types of procedure; "Cash card available", "Credit card available", "IC card available" and "Card not available (Manual input)" in a procedure selection area 1202 (Fig. 5B).

When the applicant touches the "Manual input" icon in the procedure selection area 1202, the applicant manually inputs the applicant's name, address, telephone number, date of birth as information for the applicant on the screen. In this case, hiragana or katakana (Japanese characters), numbers from 0 to 9, and alphabets are displayed on the touch panel display 12, and the applicant can select any character and number by touching the corresponding section on the screen.

When the applicant touches the "Cash card available" icon, a message of "Please insert a card" is displayed as the next procedure on the display screen (Fig. 5C). When a card is set in the card insertion port 26b, the screen further switches to a screen for inputting a code number (Fig. 5D). Then a number input area 1203 is formed on the display screen, and the applicant inputs the code number by touching necessary numbers within the number input area 1203.

Assuming that the code number is a 4-digit number, when the code number is inputted and a prespecified operation for confirmation is executed, then the inputted code number is

transmitted to the host device 61 at the passport center 6, and verification of the applicant is undertaken in the passport center 6 (host device 61), and the bank center (host device 31 and personal DB 32). Then a message "Processing..." is displayed on the screen (Fig. 6A). In a case of a credit card, communication is made with the credit company center 4.

When the operations for confirming the applicant are completed, personal information obtained through the above operations for confirming the applicant is displayed on the display screen. For instance, such data as a name, an address, a telephone number, a date of birth and sex is displayed for the applicant on the screen (Fig. 6B). In this step, personal data when the card was prepared is displayed, so that, if it is necessary to change any item or items in the personal data, the items should be changed in this step.

Therefore, in this stage, in addition to the personal information, a confirmation key 1204 for inputting a sign for confirmation by touching operation and a corrected item selection area for selecting an item for correcting the personal information are displayed.

When the applicant selects the item of "Name" in the corrected item selection area 1205, a character selection area 1208 is displayed on the display screen, and also a kana key 1206 and a Kanji (Chinese Character) key 1207 are displayed for conversion to kana (Japanese character) or kanji (Chinese

character) (Fig. 7A). When correction of "Name" is completed and the operation is confirmed by operating the confirmation key 1204, the screen changes to a screen for the next step in the procedure.

5        When the applicant selects, for instance, the item of "Address" in the corrected item selection area 1205, a character and number selection area 1209 is displayed on the display screen, and the kana key 1206 and kanji key 1207 for conversion to kana or kanji are displayed (Fig. 7B). When the correction  
10      of "Address" is completed and the operation is confirmed by operating the confirmation key 1204, the screen changes to a screen for the next step in the procedure.

         When the applicant selects, for instance, the item of "Telephone number" in the corrected item selection area 1205,  
15      a number selection area 1210 is displayed on the display screen (Fig. 8A). When correction of "Telephone number" is completed and the operation is confirmed by operating the confirmation key 1204, the screen changes to a screen for the next step in the procedure.

20        When the applicant selects the item of "Date of birth" in the corrected item selection area 1205, a name of an era section area 1211 for selecting any of the era Meiji, Taisho, Showa and Heisei and number keys 1212 consisting of digits from 0 to 9 are displayed on the display screen (Fig. 8B). When  
25      correction of "Date of birth" is completed and the operation

is confirmed by operating the confirmation key 1204, the screen changes to a screen for the next step in the procedure.

When the applicant selects, for instance, the item of "Sex" in the corrected item selection area 1205, a male selection area 1213 and a female selection area 1214 are displayed on the display screen (Fig. 8C). When correction of "Sex" is completed and the operation is confirmed by operating the confirmation key 1204, the screen changes to a screen for the next step in the procedure.

When the confirmation key 1204 is touched as it is after the operation for identifying the applicant is completed, or as it is when any correction is made in the corrected item selection area 1205, a guidance (a message) is displayed in order to take a photograph of the applicant for pasting on the passport (Fig. 9A).

After the photograph of the applicant is taken, a signature entry area 1215 is displayed so that the applicant can make a signature to be described on the passport. The applicant manually signs on this signature entry area 1215 (Fig. 9B). After the applicant's signature is inputted, a message "Processing..." is displayed on the display screen (Fig. 9C). In this step, the personal information is transferred to the passport center 6 and contents of the application is confirmed there. An examination of the passport application is executed at the passport center 6.

When the examination is completed and issuance of the applied passport is permitted, the passport is issued immediately or on a later day. When the passport is to be issued immediately, a charge for issuance of a passport is calculated, and the amount is displayed on the screen (Fig. 9D). A confirmation key 1204 is also displayed, and the applicant operates the confirmation key 1204 when he has confirmed the amount.

The sequence of operations described above is for paying a charge for passport application with a cash card, therefore, payment with a card is confirmed in this stage. A long period of time is required for this confirmation, hence, a message "Processing..." is displayed on the display screen (Fig. 10A).

When operations up to the payment above are completed, a display screen for returning the card and issuing a receipt is shown (Fig. 10B), and the cash card and a receipt are returned. After this, a message "Issuance of a passport" is formed on the display screen (Fig. 10C), and a new passport is issued.

The above description assumed a case where an applied passport is issued immediately, but when the passport is to be issued on a later day (reception on a later day), as shown in Fig. 11A, the screen displays a correspondence item selection area 1216 for selecting a method of informing a date of issuance from the passport center 6 to the applicant. Items for choice include "Telephone" including a number of a mobile telephone

or a PHS (Personal handyphone System), "Post card", "AAA" for a network for business purpose and "E-mail" through Internet.

When the applicant selects, for instance, "E-mail", a character selection area 1217 for inputting an E-mail address and the confirmation key 1204 are shown (Fig. 11B). The applicant inputs necessary characters from the character selection area 1217 and operates the confirmation key 1204 to complete the operation for inputting an E-mail address.

When the applicant selects "AAA", a character selection area 1218 for inputting an ID (ID number) for the network for business purpose and the confirmation key 1204 are displayed (Fig. 11C). The applicant inputs necessary characters from the character selection area 1218 and operates the confirmation key 1204 to complete the operations for inputting an ID.

When the applicant selects "Telephone" or the section of "Address", input can be executed according to the method of correcting personal information described above, so that the detailed description thereof is omitted herein.

When the method of correspondence is decided as describe above, a selection screen for selection of a method of payment is formed (Fig. 12A). A cash card selection key 1219 and a cash selection key 1220 each for selecting a method of payment are displayed on this selection screen. When the cash selection key 1220 is selected, the applicant inserts cash into the cash inlet or outlet port 25 to execute the payment.



When the cash card selection key 1219 is selected on this screen, the applicant again inputs the code number in the same sequence as that on the code number input screen described above, and receives the cash card and a receipt as a memo. A message  
5 indicating that the applicant's cash card is returned and a receipt is issued is displayed on the display screen (Fig. 12B). Herein as the passport application number printed on the receipt is used also as a confirmation number when receiving a passport on a later day, the passport application number is registered  
10 together with the personal information in the personal database 62 at the passport center 6.

General operations as well as operations when processing an application for a new passport are explained. Fig. 13 is a flow chart showing the general operations in Embodiment 1 of  
15 the present invention, and Fig. 14 to Fig. 16 are flow charts showing the processing for application of a new passport in Embodiment 1. The description below assumes that, the process is executed under control by each of the passport transaction apparatuses 1A-1 to 1A-N, and that each operation is executed  
20 by each corresponding unit.

At first, as general operations, the transaction selection area 1201 for 3 types of "Application of a new passport", "Application of reissuance of a passport" and "Only accept a passport" is displayed as shown in Fig. 5A (step S11).

25 When "Application for a new passport" is selected in the

transaction selection area 1201 (step S12), the processing for application of a new passport is executed in step S13 and then the processing is terminated. When "Reissuance of a passport" is selected (step S12), the processing for reissuing a passport is executed in step S14, and the processing is terminated. When "Only accept a passport" is selected (step 12), the processing for receiving a passport is executed in step S15, and the processing is terminated.

The operations when "Application of a new passport" is selected are explained with reference to Fig. 14 to Fig. 16. When an application is made for a new passport, four items for choices, namely "Cash card available", "Credit card available", "IC card available" and "Card not available (manual input)" are displayed in the procedure selection area 1202 as shown in Fig. 5B, and an operation for selecting any of items for selection of procedure is executed (step S101).

When any choice relating to use of a card is made in the procedure selection area 1202 (step S102), the processing shifts to step S104, the card is checked by referring to a code number corresponding to the inserted card, and then any fault such as absorption fault or data abnormality is checked in step S105. If any problem is found in reading the card in this step (step S105; YES route), the card is returned to the applicant, and the procedure is forcefully terminated.

When the inserted card is normally read without any fault

detected in step S105, the processing shifts to step S106. In this step S106, inquiry on personal information is directly made to a financial institution, for instance, according to a code number corresponding to the inserted card, and personal information of the applicant is transferred to the passport transaction apparatus. The personal information is displayed on the display screen as shown in Fig. 6B, and if correction of the personal data is required, the personal information is changed. Then the processing shifts to step S107.

When manual input is selected in step S102, a character input screen is formed on the screen, and the applicant directly inputs the personal information for the applicant from the screen (step S103). Then, the processing shifts to step S203.

When personal information is obtained in step S103 or in step S106, the processing shifts to step S107. In step S107, a photograph of the applicant for pasting on a passport is taken, and then in step S108, a signature of the applicant to be printed on a passport is inputted in step S108. Then the processing shifts to step S109.

In step S109, an application for a new passport is executed to the passport center 6. Namely, an electronic message for an application for a new passport is transmitted to the host device 61 at the passport center 6, and in this step personal information for the applicant is sent together with an image data of the photograph and the signature.

In the passport center 6, the host device 61 sends a data request for certificates (a resident certificate, a copy of censor register) based on the personal information to the host device 51 at the local government office 5 according to the electronic message indicating the request from the passport transaction apparatus. When data for the certificates is received by the host device 61, the data for certificates is registered together with the image data of the photograph and signature and personal information for the applicant in the personal DB 62. In the host device 61, the application is examined by checking the fetched certificates and personal information, and a result of the examination is returned via the network 2 to the passport transaction apparatus from which a request was made.

When the result of examination indicates that issuance of the applied passport is not permitted (step S110; NO route), the card is returned to the applicant, and the processing for the current application is terminated. On the other hand, when the received result of examination indicates that issuance of the applied passport is permitted (step S110; YES route), the processing shifts to step S111 (Fig. 15). In this step S111, it is determined whether the passport is to be issued immediately or on a later day. When it is determined that the passport is to be issued immediately, the processing shifts to step S112, and on the other hand when it is determined that the

passport is to be issued on a later day, the processing shifts to step S117 (Fig. 16).

When the passport is to be issued immediately (on the spot) (step S111; YES route), a charge for the application is  
5 calculated and displayed, and when the applicant acknowledges the demanded amount of charge (step S112), printing of the passport including a photograph is executed (step S113).

The photograph is pasted on the passport (step S114), and then the card is returned to the applicant, a receipt for the  
10 charge is printed and issued (step 115), and finally a new passport is issued (step S116).

When the passport is to be issued (and received by the applicant) on a later day, as shown in Fig. 11A, a correspondence item selection area 1214 for selecting a method of informing  
15 a date of issuance from the passport center 6 to the applicant is displayed, and the applicant selects one item (Fig. 16, step S117).

When data input is executed according to an item selected in the correspondence item selection area 1214 (step S118), then  
20 either one of payment with cash or that with a cash card is selected (step S119). Then, the card is returned to the applicant, and a receipt as a memo for reception of the passport on a later day is printed and issued (step S120). As already described, a number of the receipt is used as a number for  
25 confirmation when the applicant receives the passport on a later

day, so that the passport application number is registered together with the personal information in the personal DB 62 at the passport center 6.

A sequence of operations for reissuing a passport is explained. Fig. 17A to Fig. 21C are views showing a procedure for reissuing a passport in Embodiment 1 of the present invention. When an applicant touches the section of "Reissuance of a passport" in the transaction selection area 1202 (Fig. 17A), the procedure progresses according to the displayed guidance for "reissuance of a passport".

As described above, when the procedure for "Reissuance of a passport" is selected, the display screen switches to an operating screen for a method of inputting the procedure for application of reissuance of a passport. Namely, the operating screen displays a message "Please set your current passport with the rear page opened" (Fig. 17B).

When the applicant inserts the applicant's passport into the passport insertion port 26a, selection items for 4 types of procedure; namely "Cash card available", "Credit card available", "IC card" and "Card not available (Manual input)" are displayed (Refer to Fig. 5B), and the selection procedure is executed. As described above, for instance, when the applicant touches the section of "cash card available", the message of "Please insert your card" is displayed on the display screen (Fig. 17C). When a card is inserted into the card

insertion port 26b, the screen further switches to a screen for inputting a code number (Fig. 5D). Then, a number input area 1203 is formed on the display screen, and the applicant inputs a code number by touching necessary numbers within the number input area 1203.

Assuming that the code number is a 4-digit number, when the code number is inputted and a specified operation for confirmation is executed, the code number is transferred to the host device 61 at the passport center 6, and confirmation of the applicant is made between the passport center 6 (host device 61) and the bank center 3 (host device 31 and the personal DB 32). In this step, the display screen shows the message of "Processing..." (Fig. 18A). When a credit card is used, communications is made with the credit company center 4.

When the procedure for confirming the applicant is completed, the personal information obtained in the step of confirmation of the applicant is displayed on the display screen. For instance, the applicant's name, address and telephone number are displayed (Fig. 18B). In this step, the personal information obtained when the card is obtained is used, so that, if the current personal information is different from the original one, correction should be made in this stage.

Here, the confirmation key 1204 for confirming by touching the screen and a corrected item selection area 1231 for selecting an item for correcting personal information are

displayed on the display screen.

When the applicant selects, for instance, "Name" in the corrected item selection area 1231, a character selection area 1208 is displayed on the display screen, and also a kana key 1206 and a kanji key 1207 for conversion to kana or kanji are displayed (Fig. 19A). When correction of "Name" is completed and the operation is confirmed by operating the confirmation key 1204, the screen changes to a screen for the next step in the procedure.

When the applicant selects, for instance, the item of "Address" in the corrected item selection area 1231, a character and number selection area 1209 are displayed on the display screen, and further a kana key 1206 and a kanji key 1207 for conversion to kana or Kanji are displayed (Fig. 19B). When correction of "Address" is completed and the operation is confirmed by operating the confirmation key 1204, the screen changes to a screen for the next step in the procedure.

When the applicant selects, for instance, the item of "Telephone number" in the corrected item selection area 1231, a number selection area 1210 is displayed on the display screen (Fig. 19C). When correction of "Telephone number" is completed and the operation is confirmed by operating the confirmation key 1204, the screen changes to a screen for the next step in the procedure.

When the confirmation key 1204 is operated, as it is after



the operation for identifying an applicant, or as it is when any correction is made in the corrected item selection area 1205, a guidance (message) is displayed in order to take a photograph of the applicant to be posted on a passport (Fig. 20A).

5       After the photograph is taken, a signature entry area 1215 is displayed so that the applicant can make a signature to be described on the passport. The applicant directly signs on this signature entry area 1215 (Fig. 20B). After the signature is inputted, a message "Processing..." is displayed on the display  
10   screen (Fig. 20C). In this step, personal information along with the image data for the photograph and the signature added thereon is transferred to the passport center 6 for confirmation of the contents. Namely, the passport application is examined in the side of passport center 6.

15       When the examination is completed and issuance of the passport is permitted, it is determined whether the passport is to be issued immediately or on a later day. When it is determined that the passport is to be issued immediately, a charge for issuance of the passport is calculated, and the  
20   amount is displayed on the screen (Fig. 20D). In this step, a confirmation key 1204 is also displayed, and the applicant operates the confirmation key 1204 he confirms the amount.

      The sequence of operations described above is for paying a charge for issuance of a passport with a cash card, therefore,  
25   payment with a card is confirmed in this stage. A long time

is required for this confirmation, hence, a message "Processing..." is displayed on the display screen (Fig. 21A).

When the procedure for payment of a charge is completed, a display screen for returning the card and issuing a receipt is formed (Fig. 21B), and the cash card is returned and a receipt is issued. After this, a message "Issuance of a passport" is displayed on the screen (Fig. 21C), and a new passport is issued.

The above description assumes a case where an applied passport is issued immediately, but when the passport is issued (or received) on a later day, the procedure progresses like in the case of application for a new passport described above.

The processing for reissuing a passport is explained. Fig. 22 is a flow chart showing the processing for reissuing a passport in Embodiment 1 of the present invention. In the processing for reissuing a passport, as shown in Fig. 17B, when a passport is inserted according to a message for passport insertion, the passport number is read (step S201), and checking for faults such as absorption fault of the passport, or impossibility of reading the passport number is executed (step S202).

In this step, if the passport number is read successfully (step S202; NO route), the processing shifts to step S101. Namely, the processing like that in the processing for application of a new passport is started in this step. When use of a card is selected in the procedure selection area 1202

(step S101, S102), the processing shifts to step S104.

In step S104, the card is checked by checking a code number of the inserted card, and then in step S105, checking is made for any fault such as absorption fault or abnormal data. In this  
5 step, if there occurs a problem in reading the card (step S105; YES route), the card is returned and the procedure is forcefully terminated.

When the card is read successfully in step S105, the processing shifts to step S203. In this step S203, an inquiry  
10 concerning the personal information is made according to the code number of the card through the passport center 6 to a financial institution, and personal information for the applicant is obtained at the passport transaction apparatus. The obtained personal information is displayed on the display  
15 screen as shown in Fig. 18B, and if any correction is to be made, the personal information is changed. Then, the processing shifts to step S107 (Fig. 14).

When manual input is selected in step S102, an input screen for inputting characters is formed on the screen, and  
20 personal information for the applicant is directly inputted from the screen (step S103). Then, the processing shifts to step S107.

When complete personal information is obtained in step S103 or in step S203, the processing shifts to step S107, and  
25 the processing in step S107 and on is executed like in the case

of application for a new passport described above.

A sequence of operations for receiving a passport is explained. Fig. 23A to Fig. 25C are views showing a sequence of operations for receiving a passport according to Embodiment 1 of the present invention. Herein, when an applicant touches the section of "Only accept a passport" in the transaction selection area 1201 on the initial screen (Fig. 23A), procedure proceeds according to the guidance for "Only accept a passport".

As described above, when the procedure for "Only accept a passport" is selected, the display screen switches to an operational screen for a method of inputting an application for receiving a passport. In other words, a message "Please input the passport application number printed on the receipt" and a number input area 1203 consisting of the digits from 0 to 9 are displayed (Fig. 23B).

When the applicant inputs the passport application number, items for selection of 3 types of procedure, namely "Cash card available", "Credit card available", "IC card available" and "Card not available (Manual input)" are displayed like in a case of application for a new passport or of application for reissuance of a passport" (Refer to Fig. 5B), and the applicant selects one of these items.

When the applicant selects, for instance, "Cash card", a message "Please insert a card" is displayed on the display screen (Fig. 23C). When a card is inserted into the card

insertion port 26b, the screen switches to that for inputting a code number (Fig. 23D). In this step, the number input area 1203 is formed on the display screen, and the applicant inputs a code number by touching necessary numbers within the number input area 1203.

Assuming that the code number is a 4-digit number, when a code number is inputted and a specified operation for confirmation is executed on the screen, the code number is transmitted to the host device 61 at the passport center 6, and confirmation of the application is made between the passport center 6 (host device 61) and the bank center 3 (host device 31 and personal DB 32). Then a message "Processing..." is displayed on the display screen (Fig. 24A). It should be noted that, when a credit card is used, communications is made with the credit company center 4.

When the procedure for confirming the applicant is completed, personal information obtained in the step for confirming the applicant is displayed on the display screen. For instance, the applicant's name, address and telephone number are displayed (Refer to Fig. 18B). In this step, the personal information used when the card is obtained at first is displayed, and if the current personal information is different then correction should be made in this stage.

In this stage, in addition to personal information, the confirmation key 1204 for confirming the display personal

information by touching and the corrected item selection area 1231 for selecting an item or items for correcting the personal information are displayed. As the procedure for correction is the same as that in the case of application for a new passport or for application for reissuance of a passport described above, description thereof is omitted herein.

When the confirmation key 1204 is operated, as it is after the operation for identifying the applicant, or as it is when any correction is made in the correction item selection area 1205, a message "Processing..." is displayed on the display screen (Fig. 24A). In this procedure, verification of the applicant is executed at the passport center 6. It should be noted that, confirmation of the applicant can be assisted at the passport center 6 by comparing the applicant's photograph registered in the personal DB 65 to an image of the applicant monitored by a digital camera 14.

When verification of the applicant is completed and issuance of the passport is permitted, a charge for issuance of the passport is calculated, and an amount of charge is displayed on the screen (Fig. 24B). A confirmation key 1204 is also displayed, and the applicant operates the confirmation key 1204 when he has confirmed the amount.

The above description is for paying a charge with a cash card, therefore, payment with a card is confirmed at this stage. A long time is required for this confirmation, hence, a message

"Processing..." is displayed on the display screen (Fig. 25A).

When the procedure proceeds up to the step of payment, displays for operations to return the inserted cash card and issue a receipt are provided on the display screen (Fig. 25B),  
5 the cash card is returned with a receipt issued. Then, a message "Passport is issued" is formed on the screen, and the passport is issued.

The processing for receiving a passport is explained. Fig. 26 and Fig. 27 are flow charts each showing the processing  
10 for receiving a passport in this Embodiment 1. In the processing for receiving a passport, as shown in Fig. 23B, a passport application number is inputted according to the message prompting input of a passport application number (step S301), and the inputted passport application number is  
15 temporally stored in a control section 17.

In this stage, the same processing as that in the processing for applying issuance of a new passport described above is started. Namely, the processing in step S101 to step S105 is executed. Then an inquiry of personal information is  
20 made, for instance, according to a code number on the inserted card via the passport center 6 to a financial institution (step S302), and the passport application number inputted in step S301 and the applicant are verified. As a result, when the applicant is verified (step S303; YES route), the processing shifts to  
25 step S304 (Fig. 27). On the other hand, when a result of

verification is negative (step S303; NO route), the processing for receiving a passport is terminated. If a card has been inserted, the card is returned.

5 In step S304, a charge for application of the passport is calculated and displayed, and when the amount is confirmed by the applicant, in the next step S305, a passport including the applicant's photograph is printed.

10 Further a photograph is pasted to the passport (step S306), and then the applicant's card is returned, and a receipt for the charge paid by the applicant is printed and issued (step S307), and finally the passport is issued (step S308).

15 As described above, with Embodiment 1 of the present invention, when examination is made for permission of issuance of a passport between a passport transaction apparatus and a passport center, whether an applied passport is to be issued or not is determined at the center using data relating to passport transaction such as a manually-written signature obtained by the applicant at a passport transacting device, and  
20 an image of the applicant is inputted at the passport transaction apparatus, and a passport with the image and contents of description required for issuance of a passport printed thereon is issued at the site. With this feature, passport transaction can be executed at a site through  
25 communications between a passport transaction apparatus and a



center, so that passport transaction is simplified, which enables quicker transaction from application for a passport up to issuance thereof and also reduction of workload to the applicant. Especially there is provided the merit that  
5 information required for passport application and issuance thereof can simultaneously be inputted on the spot.

A charge for passport application can be processed with a cash unit 20 on the spot where the passport transaction apparatus is installed, the same function as that of the vending  
10 machine can be realized.

A charge for passport application is processed using a card unit 18b and a communication control unit 22 through communications between a passport transaction apparatus and a financial institution, so that the same function as that of a  
15 cash dispenser can be realized. With this feature, an applicant can execute passport transaction even when the applicant does not carry cash with him.

An image obtained using the digital camera 14 is transferred to a passport center, so that the state of  
20 operations for passport application can be monitored in the side of the center.

Voice collected by the autophone 13 is transferred to a passport center and the voice transferred from the passport center is outputted from the speaker 11, so that voice  
25 communications between a passport transaction apparatus and a

center can be realized.

When a passport is to be reissued, data for a passport already issued is inputted and data required for passport application is corrected, so that it is not necessary to again  
5 input all data required for passport application when applying reissuance of the passport, which enables improvement in the efficiency of data input when applying reissuance of a passport.

An image of an already issued passport is obtained with a passport reading unit 18a, and characters in the read image  
10 are recognized to input data required for passport application, so that such workload as key entry is not required and the efficiency in data input when applying reissuance of a passport can be improved.

When a passport is to be issued (or received) on a later  
15 day, ID data for identifying the applicant is printed on a receipt, whether the passport is to be issued or not is determined according to the ID data, and when it is determined that the applied passport is to be issued, the passport is issued, so that an applicant for a passport can easily be confirmed by  
20 checking data printed on a receipt.

An image of an applicant is taken with a digital camera, so that a still image of the applicant can be obtained. Therefore, a photograph to be adhered on a passport can be prepared on the spot.

25 Messages previously prepared are outputted from a speaker

in a form of a voice according to progress in procedure of passport transaction, so that, even if there is no operator at the site, the applicant can execute passport transaction.

Display and data input are executed with the integrated touch panel display 12, so that the applicant can execute operations for passport transaction while watching a screen.

Data for issuing certificates for an applicant is read out through a passport center, and certificates based on the read out data are printed, so that the applicant can get certificates such as a resident certificate or a copy of censer register without going to a local government office.

Data is inputted from a storage medium for storing therein data required for passport transaction, so that the efficiency in data input can be improved.

By using an IC card as the storage medium, it is possible to identifying an applicant with enhanced security.

Description of Embodiment 1 above assumes a case where a photograph and a signature of the applicant are managed at the passport center, but such data may be managed at each of the passport transaction apparatuses A1-1 to A1-N. Fig. 28 shows a variant of the method of storing a photograph and a signature of the applicant according to Embodiment 1. In Fig. 28, the reference numeral 17a indicates a memory provided in the control section 17.

In this memory 17a, application numbers given to each

applicant, photograph data of applicants, and signatures of the applicants are stored in correlation to each other. For instance, if an application number given to the applicant is N1, the photograph data P1 and signature data S1 of the applicant are stored in correlation to the application number N1. Similarly, if another applicant is given an application number of N2, the photograph data P2 and signature data S2 of the applicant are stored in correlation to the application number N2. This data is deleted from the memory 17a after the passport is issued or when an application for a passport is canceled by the applicant.

AS described above, by storing data such as photographs and signatures of the applicants at each of the passport transaction apparatuses A1-1 to A1-N, a required capacity of the personal DB 65 at the passport center can be suppressed to the minimum level.

[0176]

In the Embodiment 1 above, when an application for a new passport is made, a photograph and a signature of the applicant are acquired before examination at the passport center 6, but like in the Embodiment 2 described above, photographing and input of a signature required for preparation of a passport may be carried out after the examination is completed.

In Embodiment 2, the passport transaction system as a whole is the same as that according to Embodiment 1 and also

each individual configuration is the same as that in Embodiment 1, therefore, only functions relating to operations for taking a photograph of an applicant and input of a signature and the functions which are different from those in Embodiment 1 are explained below. Reference numerals and signs used for components used in the following description are the same as those in Embodiment 1. As it is not necessary to preserve a photograph or a signature of the applicant before it is determined that issuance of a passport applied by the applicant is permitted, it is not necessarily to provide items for taking a photograph or making signature like those in Embodiment 1, but that such items may be provided if required for convenience in management.

At first description is made for a sequence of operations for application of a new passport. In Fig. 5A to Fig. 12B in Embodiment 1, operations in Figs. 29A to 29D are applied in place of those in Figs. 9A to 9D in Embodiment 2. Figs. 29A to 29D are views showing a sequence of operations for applying a new passport in Embodiment 2.

In Embodiment 2, when the confirmation key 1204 is operated after the operation for confirming an applicant is completed, or when the confirmation key 1204 is operated after any item in the corrected item selection area is corrected, a message "Processing..." is displayed on the display screen (Fig. 29A). In this procedure, personal information is transferred

to the passport center 6 and contents of the application is checked. Namely, examination of an application for a passport is executed in the side of passport center 6.

When the examination is over and issuance of the passport is permitted as described above, whether the passport is to be issued immediately or on a later day is determined. When it is determined that the passport is to be issued immediately, a guidance (message) is displayed in order to take a photograph of the applicant to be pasted onto a passport(Fig. 29B).

After a photograph is taken, the signature entry area 1215 is displayed so that the applicant can make a signature to be printed on the passport. The applicant manually writes his or her name on this signature entry area 1215 (Fig. 29C). After the signature is inputted, a charge for issuance of the passport is calculated, and the amount is displayed on the screen (Fig. 29D). In this step, the confirmation key 1204 is also displayed, so that the applicant operates the confirmation key 1204 to confirm the amount. Operations in this step and on are the same as those in Embodiment 1.

The processing for an application of a new passport is explained. Fig. 30 and Fig. 31 are flow charts showing the processing for an application of a new passport according to Embodiment 2 of the present invention. It should be noted that operations corresponding to those shown in Fig. 16 are identical also in Embodiment 2 and description thereof is omitted herein.

In the processing for an application for a new passport,  
as shown in Fig. 5B (like in Embodiment 1), 4 types of selection  
items, namely "Cash card available", "Credit card available",  
"IC card available" and "Card not available (Manual input)" are  
5 displayed in the procedure selection area 1202, and the  
applicant selects any of these items (step S101).

When use of any card is selected in the procedure  
selection area 1202 (step S102), the processing shifts to step  
S104, the card is checked by checking a code number thereon,  
10 and in step S105 any fault such as absorption fault or abnormal  
data is checked. In this step, if any problem is detected in  
reading the card (step S105; YES route), the inserted card is  
returned with the procedure forcefully terminated.

When the card is successfully read in step S105, the  
15 processing shifts to step S106. In this step, an inquiry of  
personal information is made, for instance, with a code number  
of the card, directly to a financial institution, and the  
personal information of the applicant is transferred to a  
passport transaction apparatus. The transferred personal  
20 information is displayed on the display screen as shown in Fig.  
6B (like in Embodiment 1), and if any correction is required,  
the personal information is changed. Then the processing  
shifts to step S109.

When manual input is selected in step S102, a character  
25 input screen is formed on the screen, and personal information

of the application is directly inputted from the screen (step S103). Then the processing shifts to step S109.

When complete personal information is obtained in step S103 or step S106, the processing shifts to step S109, and the processing for application of a new passport is executed to the passport center 6. Namely, an electronic message for application of a new passport is transmitted to the host device 61 at the passport center 6, and in this step also the personal information is transferred.

At the passport center 6, according to the electronic message transferred from the passport transaction apparatus, data request for certificates (such as a resident certificate, or a copy of censer register) based on the personal information is made by the host device 61 to the host device 51 in the local government office 5. When data for certificates is received by the host device 61, the data for certificates is registered together with the personal information in the personal DB 62. the application for a passport is examined at the host device 61 according to the fetched certificate and personal information, and a result of the examination is returned via the network 2 to the requesting passport transaction apparatus.

When it is determined as a result of examination that issuance of the applied passport is not to be permitted (step S110; NO route), the card is returned, and the current processing for passport application is terminated. On the



other hand, when it is determined that issuance of the applied passport is permitted (step S110; YES route), the processing shifts to step S111 (Fig. 31). In this step S111, whether the passport is to be issued immediately or on a later day is determined. When it is determined that the passport is to be issued immediately, the processing shifts to step S121, and on the other hand, when it is determined that the passport is to be issued on a later day, the processing shifts to step S117 (Refer to Fig. 16 in Embodiment 1).

At first, when it is determined that the passport is to be issued immediately (step S110; YES route), a photograph of the applicant to be pasted on the passport is taken (step S121), and then a signature of the applicant to be printed on the passport is inputted (S122). A charge for the passport application is displayed, and when the amount is confirmed by the applicant (step S112), the passport including the photograph is printed (step S113).

The photograph is pasted to the passport (step S114), and then the inserted card is returned and a receipt for the charge is issued (step S115), and finally a new passport is issued (step S116).

When it is determined that the passport is to be issued (received) on a later day, as shown in Fig. 11A (like in Embodiment 1), the correspondence item selection area 1214 for selecting a method of informing the applicant of a date of

issuance from the passport center is displayed, and the applicant selects one of the methods displayed thereon (Refer to Fig. 16 in Embodiment 1, step S117). The subsequent processing is the same as that in Embodiment 1, so that  
5 description thereof is omitted herein.

A sequence of operations for reissuing a passport is explained. Of Fig. 17A to Fig. 21C in Embodiment 1, operations in Figs. 20A to 20D is applied to Figs. 32A to 32D in Embodiment 2. Figs. 32A to 32D are views showing a sequence of operations  
10 for reissuing a passport in Embodiment 2.

Like in Embodiment 1, when the procedure for checking the applicant is completed and the confirmation key 1204 is operated without executing any other operation, or when any item in the corrected item selection area 1205 is corrected and then the  
15 confirmation key 1204 is operated, message "Processing..." is displayed on the display (Fig. 32A). In this procedure, personal information is transferred to the passport center 6 and contents of the application is checked. Namely, examination of the application for a passport is executed in  
20 the side of passport center 6.

When the examination is completed as described above and issuance of the passport is permitted, whether the passport is to be issued immediately or on a later day is determined. When it is determined that the passport is to be issued immediately,  
25 a guidance (message) is displayed in order to take a photograph

of the applicant to be pasted on the passport (Fig. 32B).

After a photograph is taken, a signature entry area 1215 is displayed so that the applicant can make his or her signature onto a passport. The applicant directly and manually sign the applicant's name on this signature entry area 1215 (Fig. 32C). After the signature is inputted, a charge for issuance of the passport is calculated, and the amount is displayed on the screen (Fig. 32D). In this step, the confirmation key 1204 is also displayed, so that the applicant confirms the amount by operating the confirmation key 1204. The subsequent operations are the same as that in Embodiment 1 described above, so that description thereof is omitted herein.

The procedure for reissuing a passport described above is, like in the case of applying a new passport described above, the same as that when a new passport is applied excluding the point that an operation for inputting a signature is different from that in Embodiment 1, so that detailed description thereof is omitted herein.

A sequence of operations for receiving a passport is explained. Of Fig. 23A to Fig. 25C in Embodiment 1, operations in Figs. 33A to 33D is applied to Figs. 24A and 24B in Embodiment 2. Figs. 33A to 33D are view showing a sequence of operations for receiving a passport in Embodiment 2.

Like in Embodiment 1, when an operation for confirming the applicant is completed and then the confirmation key 1204

is operated, or when any item in the corrected item selection area 1205 is corrected and then the confirmation key 1204 is operated, a message "Processing..." is displayed on the display screen (Fig. 33A). In this procedure, verification of the applicant is executed at the passport center 6.

When verification of the applicant is completed and issuance of the passport is permitted, a guidance (message) is displayed in order to take a photograph of the applicant to be pasted to a passport (Fig. 33B).

After a photograph is taken, a signature entry area 1215 is displayed so that the applicant can make a signature. The applicant directly and manually inputs a signature onto this signature entry area 1215 (Fig. 33C). After the applicant's signature is inputted, a charge for issuance of the passport is calculated, and the amount of money for the charge is displayed on the screen (Fig. 33D). A confirmation key 1204 is also displayed, and the applicant operates the confirmation key 1204 after confirming the amount. The subsequent procedure is the same as that in Embodiment 1, so that description thereof is omitted herein.

The processing for receiving a passport is explained. In this processing for receiving a passport, of Fig. 26 to Fig. 27 in Embodiment 1, Fig. 34 is applied in place of Fig. 27. Fig. 34 is a flow chart showing the processing for receiving a passport in Embodiment 2. In the processing for receiving a

passport, as explained above in Fig. 23B, a passport application number is inputted according to a message for prompting input of a passport application number, and the inputted passport application number is temporally stored in the control unit 17.

5           In this stage, the processing like that for application of a new passport is started. Namely, the processing from step S101 to step S105 is executed (Refer to Fig. 26). An inquiry of personal information is made, for instance, according to a code number of the card through the passport center 6 to a  
10 financial institution (step S302), and also the passport application number inputted in step S301 and the applicant are verified. As a result, when a result of verification above is affirmative (step S303; YES route), the processing shifts to step S310 (Fig. 34). On the other hand, when a result of  
15 verification is negative (step S303; NO route), the processing is terminated. If a card has been inserted, the card is returned to the applicant.

          In step S310, a photograph to be pasted to a passport is taken, and then a signature of the applicant to be printed on  
20 the passport is inputted (step S311). Then a charge for the application is calculated and displayed, and when the amount is confirmed by the applicant (step S304), a passport including the photograph is printed (step S305).

          The photograph is pasted to the passport (step S306), and  
25 the card is returned to the applicant and a receipt for the charge

is printed and issued (step S307), and finally the passport is issued (step S308).

As described above, with Embodiment 2, the same effects as those in Embodiment 1 can be achieved, but a photograph and a signature of the applicant are obtained after an examination at the passport center 6, so that the procedure before examination can be suppressed to the minimum level, and also unnecessary operations for photographing and inputting a signature which may not be required according to a result of examination can be saved.

In addition, it is not necessary to preserve a photograph or a signature at the passport center 6, so that a capacity of the personal DB 65 can be suppressed to the minimum level. However, when it is required to preserve a photograph or a signature of an applicant for management, the required capacity of the personal DB 65 is the same as that in Embodiment 1.

In Embodiments 1 and 2, when an applicant applies for a passport through a passport transaction apparatus, a passport center accesses a host device at a local government office for examination of the passport application. However, the present invention is not limited to this configuration, and like in Embodiment 3 described above, an examination of the application may be carried out by accessing a host device at a local government office or that at a passport center through a passport transaction apparatus.

A passport transaction system according to Embodiment 3 of the present invention is described. Fig. 35 is a block diagram showing one example of the passport transaction system according to Embodiment 3 of the present invention. The general configuration of the passport transaction system according to Embodiment 3 is the same as that in Embodiment 1, so that description is made below for only the different portions.

In Fig. 35, the difference between Embodiment 1 described above is that, there is no communication line connecting the local government office 5, bank center 3, credit company center 4 and passport center 8 (having a host device 81 and a personal DB 82) and that passport transaction apparatuses 1B-1 to 1B-N directly communicate with each host device.

Thus, as the host device 81 provided at the passport center 8 performs the examination, and hence, operations for fetching various types of data at the local government office 5 or for verification to the bank center 3 or to the credit company center 4 are not required. Namely, all of the operations are executed in the side of passport transaction apparatus.

As described above, the functions in this Embodiment 3 are different from those in Embodiment 1, so that different reference numerals are used. Further functions of the passport transaction apparatuses 1B-1 to 1B-N are different from those in Embodiment, so that different numerals are used for the

components.

In the following, operations in this Embodiment 3 are described. Only the different portions from Embodiment 1 (or Embodiment 2) are described. At first, the processing for application of a new passport is described. Fig. 36 is a flow chart showing the processing for application of a new passport.

In Embodiment 1 above, in step S109, the passport center 6 fetches certificates such as a resident certificate or a copy of censor register with the host device 61 by accessing the host device 51 at the local government office 5. In contrast, in Embodiment 3, each of the passport transaction apparatuses 1B-1 to 1B-N itself accesses the host device 51 at the local government office 5 to fetch various types of certificate such as a resident certificate or a copy of censor register (step S109A) and executes the procedure for applying a passport at the passport center 6 with these certificates (step S109B).

In the following, operations for reissuing a passport are described. Fig. 37 is a flow chart showing the processing for reissuing a passport according to Embodiment 3. In Embodiment 1 described above, in step S203, the passport center 6 accesses each of the host devices provided at the bank center 3 and credit company center 4 using the host device 61 for verifying the applicant. In contrast, in Embodiment 3, each of the passport transaction apparatuses 1B-1 to 1B-N itself accesses the host devices provided at the bank center 3 or credit company center



4 (step S203A), and determines whether the applied passport is to be reissued or not by communicating with the passport center 6 (step S203B).

In the following, operations for receiving a passport are explained. Fig. 38 is a flow chart showing the processing for receiving a passport in Embodiment 3. In Embodiment 1 (or in Embodiment 2) described above, in step S302, the passport center 6 accesses each of the host devices provided at the bank center 3 and credit company center 4 with the host device 61 to verify the applicant. In contrast, in Embodiment 3, each of the passport transaction apparatuses 1B-1 to 1B-N itself accesses the host devices provided at the bank center 3 or credit company center 4 (step S203A), and determines whether the passport is to be reissued or not by communicating with the passport center 6 (step S203B).

As described above, with Embodiment 3, when a passport transaction apparatus examines an application for issuance of a passport by communicating with a local government office and a passport center, the passport transaction apparatus verifies the applicant by communicating with a host device provided at the local government by using data required for passport transaction such as a signature manually written and inputted by the applicant, and makes a host device at the host device determines whether the applied passport is to be issued or not with an image of the applicant inputted at the passport

transaction apparatus when it is determined that the applied passport is to be issued, and the passport with the image and contents for description for passport application printed thereon is issued on the spot.

5           With these features, passport transaction can be carried out on the spot through communications between a passport transaction apparatus and a passport center. Because of this feature, passport transaction is simplified, which enables quicker transaction from application of a passport up to  
10 issuance thereof and also reduction of workload to the applicant.

          In Embodiment 4 of the present invention described below, an IC card is used in any of Embodiments 1, 2 and 3. Therefore, general configuration of the passport transaction system  
15 according to Embodiment 4 can be applied to any of Embodiments 1, 2 and 3, and description thereof is omitted herein.

          Herein a method of using an IC card is described. Fig. 39 is a view showing a method of storing the data in an IC card according to Embodiment 4. A memory is provided in an IC card,  
20 and information such as personal data is managed in the memory. In this memory, as shown, for instance, in Fig. 39, 22 items of data are registered therein. The items No.1 to No. 22 represent respectively IC card control section, personal management number, passport issuance number, date of issuance  
25 of a passport, passport validity term number, card validity term,

censor register code, censor register data, address code, address data, name, date of birth, sex, type of code, coded data, amount of data, unit of currency, transaction history, telephone number, E-mail address, preparatory item 1 and preparatory item 2.

Only the items different from those managed in the personal DB 63 at the passport center 6 are described. The common items are shared between the personal DB 62 and the IC card. The IC card control section corresponding to Item No. 1 shows identification data, control data or the like for a passport management device to access an IC card using a card reader. The card validity term indicates a validity term of the card as data. The currency unit indicates a unit of currency used for payment. The transaction history indicates history of any transactions.

As described above, with Embodiment 4, the data required for issuance of a passport and an applicant thereof are certified with data stored in an IC card so as to determine whether the passport is to be issued or not, and when it is determined that the passport is to be issued, an image of the applicant is inputted and a passport with the image and contents to be described on a passport printed thereon is issued on the spot. With this feature, passport transaction can be executed on the spot by certifying an applicant with data stored in a storage medium, and passport transaction is simplified, which

enables quicker transaction from application of a passport up to issuance thereof and also reduction of workload to the applicant. It should be noted that features in Embodiment 4 can be applied to Embodiment 3 described above.

5           In Embodiments 1 to 4 described above, a cash card or a credit card is used for verifying an applicant, and the applicant is verified when a code number of a card carried by the applicant is correct. This is the same as a driver's license or an insurance certificate used for certifying an applicant.

10           It is necessary to optically recognize such a certificate as a driver's license or an insurance certificate for verifying an applicant when a card is not used for that purpose. In that case, a passport reading unit 18a provided in a passport transaction apparatus may be used. An applicant is required  
15           to insert various certificates such as a driver's license or an insurance certificate into the passport insertion port 26a.

          In this case, in Embodiments 1 to 3, the processing for reading certificates and recognizing information for identifying an applicant from the data is required in place of  
20           an operation for reading a card, and the application is verified to a management institution handling various types of certificate according to a result of recognition. As described above, an applicant can be identified without using a card.

          The present invention is described above with reference  
25           to Embodiments 1 to 4, but various types of variant are possible

within a gist of the present invention, and the variants are not excluded from a scope of the present invention.

With the invention, an image of an applicant, data required for passport application, sign of the applicant are  
5 inputted and transmitted to a center, and determination as to whether the applied passport is to be issued or not is made according to certificate data for the applicant recorded in a resident database connected to the center as well as to various types of input data. Thus, all information required for  
10 application and issuance of a passport can be inputted at one place and time, whereby passport transaction can be simplified, and there is provided the effect that it is possible to provide a passport transaction apparatus which can perform quicker transactions from application for an application to issuance  
15 thereof and reduce the workload to the applicant.

With the invention, an image of an applicant, data required for passport application, sign of the applicant are inputted and transmitted together with certification data for the applicant fetched from a resident database to the center,  
20 and it is determined whether the applied passport is to be issued or not according to each of the various types of data. Thus, all information required for application and issuance of a passport can be inputted at one place and time, whereby passport transaction can be simplified, and for this reason there is  
25 provided the effect that it is possible to provide a passport

transaction apparatus which can perform quicker transactions from application for a passport up to issuance thereof and reduce the workload to the applicant.

With the invention, determination as to whether an  
5 applied passport is to be issued or not is made at a center according to data inputted by an applicant when it is determined that the applied passport is to be issued, an image of the applicant is inputted and a passport with the image and contents of description for a passport printed thereon is issued  
10 at the site. Thus, passport transaction can be made at a place through communication with the center, whereby passport transaction is simplified, and for this reason there is provided the effect that it is possible to provide a passport transaction apparatus which can perform quicker transactions from  
15 application for a passport up to issuance thereof and reduce the workload to the applicant.

With the invention, data required for issuance of a passport and the applicant are certified by data stored in a storage medium to determine whether a applied passport is to  
20 be issued or not. When it is determined that the applied passport is to be issued, an image of the applicant is issued and a passport with the image and contents of description for the passport printed thereon is issued on the spot. Thus, passport transaction can be completed at a site by certifying  
25 an application for a passport with data stored in a storage

medium, whereby passport transaction is simplified, and for this reason there is provided the effect that it is possible to provide a passport transaction apparatus which can perform quicker transactions from application for a passport up to  
5 issuance thereof and reduce the workload to the applicant.

With the invention, when a passport is reissued, data required for passport application is modified by inputting data for the passport already issued. Thus there is no need to input all the required data again when the same passport is reissued,  
10 and for this reason there is provided the effect that it is possible to provide a passport transaction apparatus in which efficiency for inputting data required for passport transaction can be improved by inputting data for the passport already issued.

15 With the invention, a passport already issued is read as an image, and characters in the read image are recognized for data input, so that workload as that required in key entry is not required, and for this reason there is provided the effect it is possible to provide a passport transaction apparatus in  
20 which the efficiency in data input can be improved by utilizing a passport which has been issued already.

With the invention, authorization data for identifying an applicant when a passport is to be issued on a later day is printed, and it is determined whether an applied passport is  
25 to be issued or not is made according to the authorization data,

and the passport is issued when it is determined that the passport is to be issued, and for this reason there is provided the effect that it is possible to provide a passport transaction apparatus in which it is possible to easily identify a applicant with a receipt.

With the invention, a digital camera is used to input an image of an applicant, so that it is possible to input a still picture, and for this reason there is provided the effect that it is possible to obtain a passport transaction apparatus which can obtain a photograph of the applicant to be pasted on a passport on the spot.

With the invention, a previously prepared message is outputted as a voice according to progress in procedure for passport transaction, and for this reason there is provided the effect that it is possible to provide a passport transaction apparatus in which passport transaction can be executed even when an operator is not present.

With the invention, display and data input are made with a display unit based on the integrated touch panel system, and for this reason there is provided the effect that it is possible to obtain a passport transaction apparatus in which an applicant can easily operate for passport transaction while watching a display screen.

With the invention, a charge for passport application is processed with cash, and for this reason there is provided the



effect that it is possible to obtain a passport transaction apparatus which can realize the same functions as those of a vending machine.

With the invention, a charge for passport application is  
5 processed through communication with a financial institution,  
so that the same functions as those of a cash dispenser can be realized, and for this reason there is provided the effect that it is possible to provide a passport transaction apparatus which can execute passport transaction even if an applicant does not  
10 have cash.

With the invention, data for issuing a certificate of an applicant is read out through the center, and the certificate is printed according to the read-out data, and for this reason there is provided the effect that it is possible to obtain a  
15 passport transaction apparatus which can provide such documents as a resident's certificate or a copy of an applicant's censor register.

With the invention, data input is executed from a storage medium for storing therein data required for passport  
20 transaction, and for this reason there is provided the effect that it is possible to obtain a passport transaction apparatus which can improve the efficiency in data input.

With the invention, data is inputted from a storage medium for storing therein data required for passport transaction, and  
25 for this reason there is provided the effect that it is possible

to obtain a passport transaction apparatus which can execute identification with enhanced security.

With the invention, data for identifying an applicant is inputted, determination as to whether the passport is to be issued or not is made accessing the center and using the inputted data, and when it is determined that the applied passport is to be issued, the image of the applicant is inputted, and a passport with the image and contents of description of the passport printed thereon is issued, so that passport transaction can be made on the spot through communication with a center. Thus, with this feature the passport transaction is simplified, and for this reason there is provided the effect that it is possible to obtain a passport transaction method which enables quicker transaction from passport transaction up to issuance thereof and also reduction of work load to an applicant.

With the invention, data required for issuance of a passport and data for identifying an applicant of the passport are read out from a storage medium, determination as to whether an applied passport is to be issued or not is made according to the data, and when it is determined that the applied data is to be issued, an image of the applicant is inputted and a passport with the image and contents of description for passport printed thereon is issued. Thus, passport transaction can be executed on the spot by identifying an applicant with data

stored in a storage medium, and with this feature passport transaction is simplified, and for this reason there is provided the effect that it is possible to obtain a passport transaction method which enables quicker transaction from passport application to issuance thereof and also reduction of work load to the applicant.

With the invention, when examination for issuance of a passport is executed between a passport transaction apparatus and a center, determination as to whether an applied passport is to be issued or not is made at the center using the data required for passport transaction inputted by the applicant at the passport transaction apparatus, and when it is determined that the applied passport is to be issued, an image of the applicant is inputted at the passport transaction apparatus and a passport with the image and contents of description for passport printed thereon is issued on the spot. Thus, passport transaction can be made on the spot through communications between the passport transaction apparatus and the center, and hence passport transaction is simplified, and for this reason there is provided the effect that it is possible to obtain a passport transaction system which enables quicker transaction from passport application up to issuance thereof and also reduction of work load to an applicant.

With the invention, when examination for issuance of a passport is executed in the passport transaction apparatus and

first and second centers, verification of an applicant is made at the first center using data required for passport transaction inputted by the applicant at the passport transaction apparatus, determination as to whether the applied passport is to be issued or not is made at the second center, an image of the applicant is inputted at the passport transaction apparatus when it is determined that the applied passport is to be issued, and a passport with the image and contents of description for passport printed thereon is issued on the spot, so that passport transaction can be made at a site through communication between the passport transaction apparatus and centers. Thus, passport transaction is simplified, and for this reason there is provided the effect that it is possible to obtain a passport transaction system which enables quicker transaction from passport application up to issuance thereof and also reduction of work load to the applicant.

With the invention, an inputted image is transferred to a center, and hence there is provided the effect that it is possible to obtain a passport transaction system in which progress of procedure for passport transaction made by an applicant can be monitored at the center.

With the invention, an inputted voice is transferred to a center and a voice transferred from the center is outputted, and for this reason there is provided the effect that it is possible to obtain a passport transaction system in which that

voice communication for passport transaction can be realized between the passport transaction apparatus and the center.

With the invention, a charge for passport application is processed with cash on the spot where a passport transaction apparatus is installed, and for this reason there is provided the effect that it is possible to obtain a passport transaction system in which the same functions as those of a vending machine can be realized.

With the invention, a charge for passport application is processed through communications between a passport transaction apparatus and a financial institution, so that the same functions as those of a cash dispenser can be realized, and for this reason there is provided the effect that it is possible to obtain a passport transaction system in which it is possible for an applicant to execute passport transaction even if the applicant does not carry cash.

This application is based on Japanese patent application No. HEI 10-207885 filed in the Japanese Patent Office on July 23, 1998, the entire contents of which are hereby incorporated by reference.

Although the invention has been described with respect to a specific embodiment for a complete and clear disclosure, the appended claims are not to be thus limited but are to be construed as embodying all modifications and alternative constructions that may occur to one skilled in the art which

fairly fall within the basic teaching herein set forth.

WHAT IS CLAIMED IS:

1. A passport transaction apparatus connected to a resident's database storing therein identification data of the residents and also connected to a center which executes an examination for issuance of passports through a communication  
5 line, said apparatus comprising:

a communication unit for communicating with said center;

an image input unit for inputting an image of the applicant for a passport;

10 a display unit for displaying a guidance for the procedure for the passport transaction;

a data input unit for inputting data for the application according to the procedure for passport transaction displayed on said display unit;

15 a sign input unit for inputting a sign of the applicant; and

a control section for transmitting the data inputted by each of said input units to said center by using said communication unit and orchestrates said center so as to  
20 determine whether the applied passport is to be issued or not based on the identification data for the applicant which has been recorded in said resident database and on each of the transmitted input data.

2. A passport transaction apparatus connected through a communication line to a center which executes an examination for issuance of passports as well as to a resident's database which stores identification data of residents for providing services for issuing passports to applicants, said apparatus comprising:

a communication unit for communicating with said center and with said resident's database;

an image input unit for inputting an image of an applicant for the passport;

a display unit for displaying a guidance for the procedure for the passport transaction;

a data input unit for inputting data for the application according to the procedure for passport transaction displayed on said display unit;

a sign input unit for inputting a sign of the applicant; and

a control unit for transmitting the data inputted by each of said input units and the identification data of the applicant fetched using said communication unit to said center by using said communication unit and orchestrates said center so as to determine whether the passport is to be issued or not based on the transmitted data.



3. A passport transaction apparatus connected to a center which provides the data for issuance of a certificate for an applicant and executes examination for issuance of passports for processing passport transactions through communication  
5 with the center via a communication line, said apparatus comprising:

a communication unit for communicating with said center;

an image input unit for inputting an image of the applicant;

10 a display unit for displaying a guidance for the procedure for passport transaction;

a data input unit for inputting data for passport transaction according to the procedure displayed on said display unit;

15 a printer unit for printing the image inputted by the image input unit and contents of the passport on a passport paper prepared previously;

an issuer unit for issuing a passport obtained by printing with said printer unit; and

20 a control unit for controlling the communications by said communication unit, image input by said image input unit, display by said display unit, data input by said data input unit and issuance of a passport by said issuer unit;

wherein said control unit sends the data inputted by each  
25 of said input units to said center using said communication unit

and orchestrates said center so as to determine whether the passport is to be issued or not, when it is determined that the passport is to be issued, makes the printer unit print the image of the applicant inputted by said image input unit and contents of the passport onto a passport paper prepared previously, and makes the issuer unit issue the passport obtained by printing.

4. A passport transaction apparatus according to Claim 3 further comprising a passport data input unit for inputting the contents of an issued passport as data; wherein said control unit orchestrates, when reissuing a passport, said display unit and said data input unit so as to amend the data required for application of the passport of data inputted from the passport data input unit.

5. A passport transaction apparatus according to Claim 4; wherein said passport data input unit reads the image of an issued passport recognizes the characters in the read image in order to input the data.

6. A passport transaction apparatus according to Claim 3 further comprising:

a receipt issuer unit for issuing a receipt authorization data for checking an applicant when a passport is issued to the applicant; and

a storage unit for storing therein authorization data printed on the receipt issued by the receipt issuing unit; wherein said control unit determines, when the authorization data is inputted by the data input unit, as to whether the applied passport is to be issued or not by verifying the authorization to the storing unit, and when it is determined that the applied passport is to be issued, prints the image of the applicant inputted by said image input unit and contents of the passport on a passport paper previously prepared using the printer unit and issues the passport obtained by printing using said issuing unit.

7. A passport transaction apparatus according to Claim 3; wherein said image input unit is a digital camera.

8. A passport transaction apparatus according to Claim 3 further comprising a voice outputting unit for providing guidance for procedure of passport transaction with voice; wherein said control unit outputs messages previously prepared with voice according to progress of procedure of passport transaction by controlling said voice outputting unit.

9. A passport transaction apparatus according to Claim 3; wherein said display unit is a display unit based on an integrated touch panel system.

10. A passport transaction apparatus according to Claim 3 further comprising:

a direct payment unit for payment of a charge for passport application with cash; wherein said control unit controls input  
5 of cash and change by controlling operations of said direct payment unit.

11. A passport transaction apparatus according to Claim 3; wherein said communication unit is connected to a center of a  
10 financial institution, said apparatus further comprises an indirect payment unit connected to a center of a financial institution for processing a charge for passport application through communication between said communication unit and said financial institution, and said control unit controls payment  
15 with the financial institution by controlling operations of said indirect payment unit.

12. A passport transaction apparatus according to Claim 3; wherein said control unit reads out, when issuing a certificate  
20 for an applicant, data for issuing a certification for the applicant from the center with the communication unit, and prints the certificate based on the read-out data using said printing unit.

13. A passport transaction apparatus according to Claim 3; wherein said data input unit executes data input from a storage medium storing therein data required for passport transaction.

5 14. A passport transaction apparatus for processing passport transaction with a storage medium which stores the data required for issuance of passports and the data for identifying the applicants for the passports, said apparatus comprising:

10 an image input unit for inputting an image of the applicant;

a reader unit for reading out the data from said storage medium;

a display unit for displaying a guidance for the procedure for the passport transaction;

15 a data input unit for inputting data for passport transaction according to the procedure for passport transaction displayed on said display unit;

20 a printer unit for printing an image inputted by said image input unit and the contents of the passport onto a passport paper previously prepared;

an issuer unit for issuing a passport obtained by printing with said printing unit;

25 a control unit for controlling the communications by said communication unit, image input by said image input unit, display by said display unit, reading by said reader unit, data

input by said data input unit and issuance of a passport by the issuing unit;

wherein said control unit determines whether the applied passport is to be issued or not based to the data read out by said reading unit, and when it is determined that the passport is to be issued, prints the image of applicant inputted by said image input unit and contents of the passport printed onto a passport paper previously prepared using the printing unit and issues the passport obtained by printing using the issuing unit.

15. A passport transaction apparatus according to Claim 14 further comprising a passport data input unit for inputting the contents of an issued passport as data; wherein said control unit orchestrates, when reissuing a passport, said display unit and said data input unit so as to amend the data required for application of the passport of data inputted from the passport data input unit.

16. A passport transaction apparatus according to Claim 15; wherein said passport data input unit reads the image of an issued passport recognizes the characters in the read image in order to input the data.

17. A passport transaction apparatus according to Claim 14 further comprising:

a receipt issuer unit for issuing a receipt authorization data for checking an applicant when a passport is issued to the applicant; and

a storage unit for storing therein authorization data  
5 printed on the receipt issued by the receipt issuing unit;  
wherein said control unit determines, when the authorization data is inputted by the data input unit, as to whether the applied passport is to be issued or not by verifying the authorization to the storing unit, and when it is determined that the applied  
10 passport is to be issued, prints the image of the applicant inputted by said image input unit and contents of the passport on a passport paper previously prepared using the printer unit and issues the passport obtained by printing using said issuing unit.

15  
18. A passport transaction apparatus according to Claim 14; wherein said image input unit is a digital camera.

19. A passport transaction apparatus according to Claim 14  
20 further comprising a voice outputting unit for providing guidance for procedure of passport transaction with voice; wherein said control unit outputs messages previously prepared with voice according to progress of procedure of passport transaction by controlling said voice outputting unit.

25

20. A passport transaction apparatus according to Claim 14; wherein said display unit is a display unit based on an integrated touch panel system.

5 21. A passport transaction apparatus according to Claim 14 further comprising:

10 a direct payment unit for payment of a charge for passport application with cash; wherein said control unit controls input of cash and change by controlling operations of said direct payment unit.

22. A passport transaction apparatus according to Claim 14; wherein said communication unit is connected to a center of a financial institution, said apparatus further comprises an  
15 indirect payment unit connected to a center of a financial institution for processing a charge for passport application through communication between said communication unit and said financial institution, and said control unit controls payment with the financial institution by controlling operations of  
20 said indirect payment unit.

23. A passport transaction apparatus according to Claim 14; wherein said control unit reads out, when issuing a certificate for an applicant, data for issuing a certification for the  
25 applicant from the center with the communication unit, and



prints the certificate based on the read-out data using said printing unit.

24. A passport transaction apparatus according to Claim 14;  
5 wherein said data input unit executes data input from a storage medium storing therein data required for passport transaction.

25. A passport transaction apparatus according to Claim 14;  
wherein said storage medium is an IC card.

10 26. A passport transaction method applicable to a system in which a system is connected via a communication line to a center for providing data for issuance of a certificate to an applicant and executing examination for issuance of a passport for  
15 processing passport transaction by ways of communication with the center, said method comprising:

a first step of inputting data for checking an applicant;  
a second step of accessing said center and determining whether the applied passport is to be issued or not by using  
20 the data inputting in the first step;

a third step of inputting, when it is determined in the second step that the applied passport is to be issued, an image of the applicant; and

a fourth step of printing the image of the applicant and  
25 contents of description on the passport inputting in the third

step onto passport paper previously prepared, and issuing the passport obtained by printing.

27. A passport transaction apparatus applicable to a system  
5 for processing passport transaction with a storage medium  
storing therein data required for issuance of passports as well  
as data for identifying applications for passports comprising:

a first step of reading out data required for issuance  
of a passport from the storage medium and data for identifying  
10 an applicant;

a second step of determining whether the applied passport  
is to be issued or not according to the data read out in the  
first step;

a third step of inputting, when it is determined in the  
15 second step that the applied passport is to be issued, an image  
of the applicant; and

a fourth step of printing the image of the applicant and  
contents of description on the passport inputted in the third  
step and issuing the passport obtained by printing.

20

28. A passport transaction system comprising:

a center accessibly connected to a first database storing  
therein data for issuing certificates to applicants,  
registering data for issuance of passports in a second database,  
25 and executing examination for issuance of passports; and

at least one passport transaction apparatus connected via a communication line to said center for processing passport transaction by communicating with said center; wherein said passport transaction apparatus comprises

5       a communication unit for communicating with said center;  
      an image input unit for inputting an image of the applicant for a passport;

      a display unit for displaying a guidance for the procedure for passport transaction;

10       a data input unit for inputting data for passport transaction according to the contents of procedure displayed on the display unit;

      a printer unit for printing the image inputted by the image input unit and contents of description on the passport  
15   onto a passport paper previously prepared;

      an issuer unit for issuing the passport obtained by printing with said printing unit; and

      a control unit for controlling the communications by said communication unit, image input by said image input unit,  
20   display by said display unit, data input by said data input unit and issuance of a passport by said issuer unit; while the control unit accesses the center using the communication unit, asks the center to make determination as to whether the applied passport is to be issued or not according to the data inputted by the  
25   data input unit, and when it is determined that the applied

passport is to be issued, has an image of the applicant inputted by the image input unit and contents of description of the passport onto passport paper previously prepared and the passport obtained by printing issued with the issuing unit; and  
5 the center verifies the data inputted by the data input unit according to a request from the passport transaction apparatus to the first and second databases respectively by way of communication with the communication unit and returns a replay as to whether each applied passport is to be issued or not  
10 according to a result of verification.

29. A passport transaction system according to Claim 28; wherein said image input unit and communication unit are connected to each other, and said control unit transfers the  
15 image inputted by the image input unit via said communication unit to the center.

30. A passport transaction apparatus according to Claim 28; wherein said passport transaction apparatus further comprises  
20 an voice input unit for inputting a voice and a voice outputting unit for outputting a voice, and said communication unit transfers the voice inputted with the voice input unit to the center and also outputs the voice transferred from the center to the voice outputting unit.

31. A passport transaction system according to Claim 28;  
wherein said passport transaction apparatus further comprises  
a direct payment unit for processing a charge for passport  
application with cash, and said control unit controls receipt  
5 of cash and changes by controlling processing by the direct  
payment unit.

32. A passport transaction system according to Claim 28;  
wherein said passport transaction apparatus further comprises  
10 an indirect payment unit connected with the communication unit  
via a communication line to a center of a financial institution  
for processing a charge for passport application through  
communication between the communication unit and the financial  
institution, and the control unit controls procedure for  
15 payment to and from the financial institution by controlling  
the processing by the indirect payment unit.

33. A passport transaction system comprising:

a first center having a first database with data required  
20 for issuance of certificates for applicants registered therein;

a second center for registering data for issuance of  
passports in a second database and also executing examination  
for issuance of passports; and

at least one passport transaction apparatuses each  
25 connected via a communication line to the first and second

centers for processing passport transaction by communicating with the first and second centers; wherein said passport transaction apparatus comprises:

5 a communication unit for communicating with the first and second centers;

an image input unit for inputting an image of an applicant for a passport;

a display unit for providing guidance with displays of contents of procedure for passport transaction;

10 a data input unit for inputting data for passport transaction according to the contents of procedure displayed on the display unit;

a printing unit for printing the image inputted by the image input unit and contents of description of the passport onto passport paper previously prepared;

an issuing unit for issuing a passport obtained by printing with the printing unit; and

a control unit for providing controls over communication by the communication unit, image input by the image input unit, displays by the display unit, data input by the data input unit, and issuance of passports by the issuing unit; while the control unit accesses the first and second centers respectively using the communication unit, verifies an applicant for a passport according to the data inputted with the data input unit, makes  
25 determination as to whether an applied passport is to be issued

or not, and when it is determined that the applied passport is to be issued, has the image of the applicant inputted by the image input unit and contents of description on the passport printed with the printing unit onto passport paper previously prepared and also has the passport obtained by printing issued with the issuing unit;

the first center verifies the data inputted by the data input unit according to a request for verification of an applicant for a passport from the passport transaction apparatus to the first database by way of communication with the communication unit and returns a replay according to a result of verification as to whether the applicant is true or not; and

the second center verifies the data inputted by the data input unit according to a request from the passport transaction apparatus by way of communicating with the communication unit to the second database and returns a replay according to a result of verification as to whether the applied passport is to be issued or not.

34. A passport transaction system according to Claim 33; wherein said image input unit and communication unit are connected to each other, and said control unit transfers the image inputted by the image input unit via said communication unit to the center.

35. A passport transaction apparatus according to Claim 33;  
wherein said passport transaction apparatus further comprises  
an voice input unit for inputting a voice and a voice outputting  
unit for outputting a voice, and said communication unit  
5 transfers the voice inputted with the voice input unit to the  
center and also outputs the voice transferred from the center  
to the voice outputting unit.

36. A passport transaction system according to Claim 33;  
10 wherein said passport transaction apparatus further comprises  
a direct payment unit for processing a charge for passport  
application with cash, and said control unit controls receipt  
of cash and changes by controlling processing by the direct  
payment unit.

37. A passport transaction system according to Claim 33;  
wherein said passport transaction apparatus further comprises  
an indirect payment unit connected with the communication unit  
via a communication line to a center of a financial institution  
15 for processing a charge for passport application through  
communication between the communication unit and the financial  
institution, and the control unit controls procedure for  
payment to and from the financial institution by controlling  
the processing by the indirect payment unit.



## ABSTRACT OF THE DISCLOSURE

When issuance of a passport is examined within each of the passport transaction apparatuses and the passport center, each of the passport transaction apparatuses orchestrates the passport center so as to determine whether the passport is to be issued or not using data for passport transaction inputted by the applicant. When issuance of the passport is permitted, an image of the applicant is acquired at each of the passport transaction apparatuses, and a passport with the image and contents of description for a passport is issued on the spot. Thus the process for passport transaction can be made faster and also a workload to an applicant can be reduced.

FIG.1

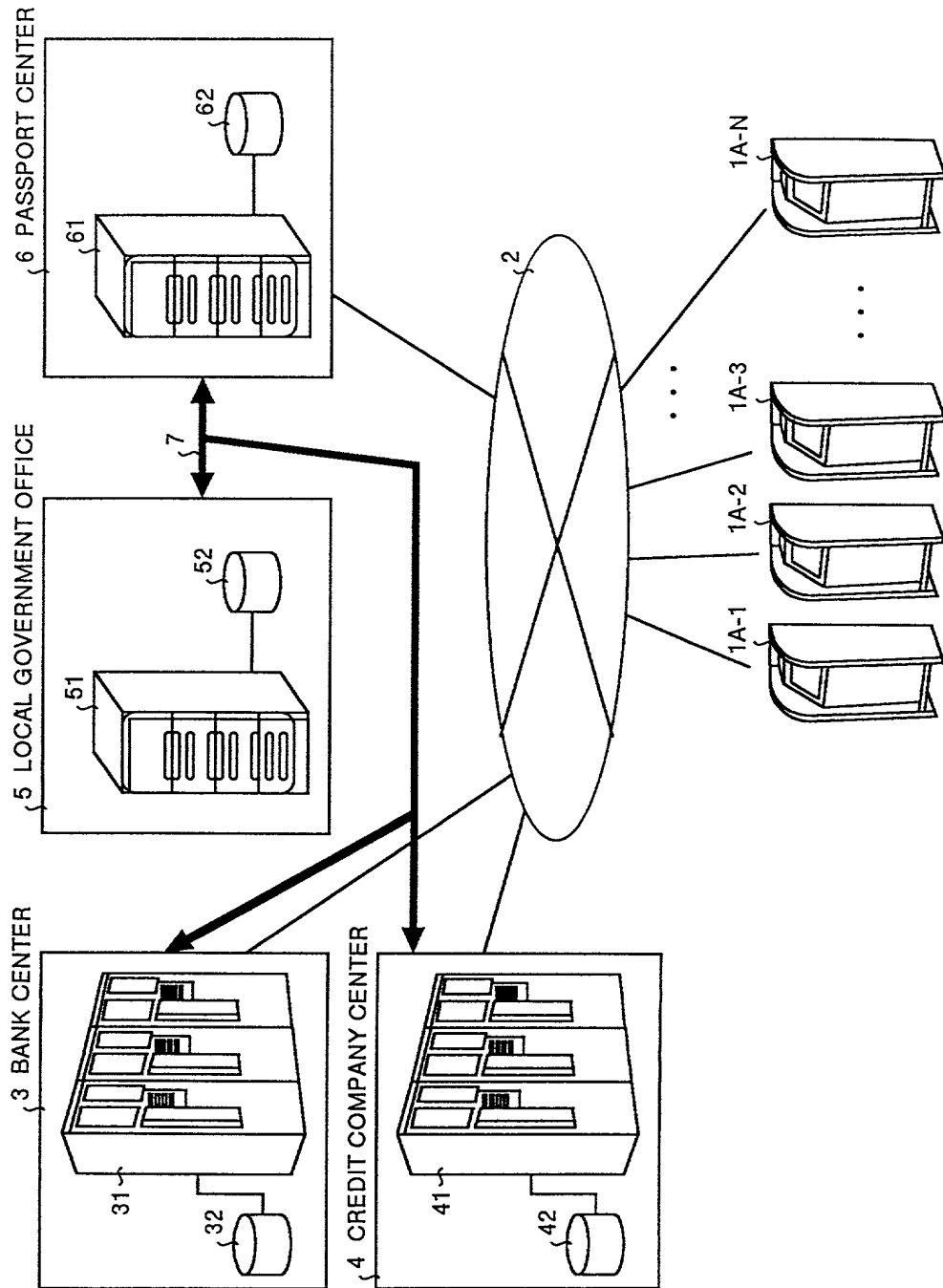


FIG.2

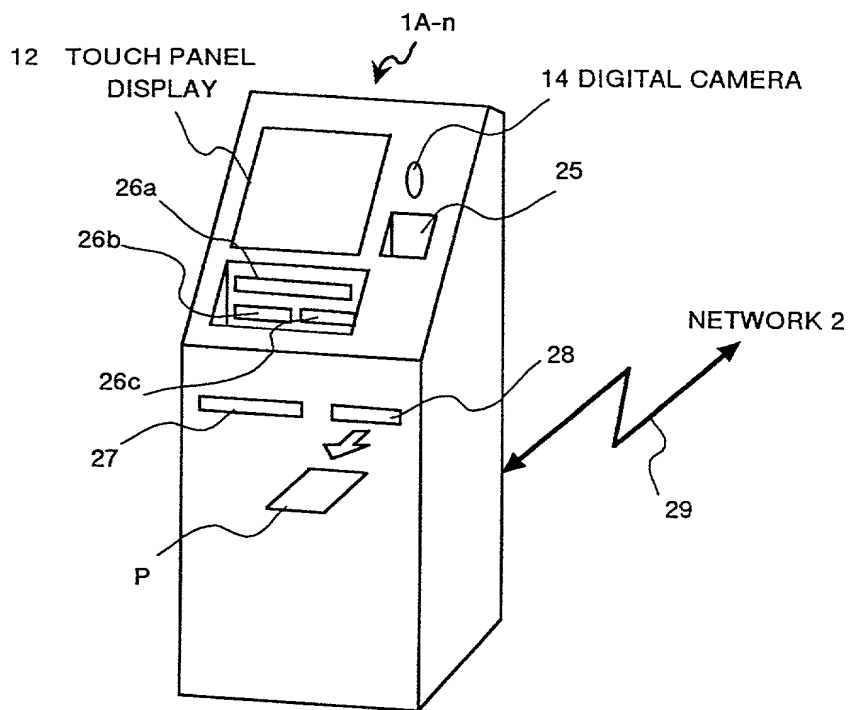


FIG.3

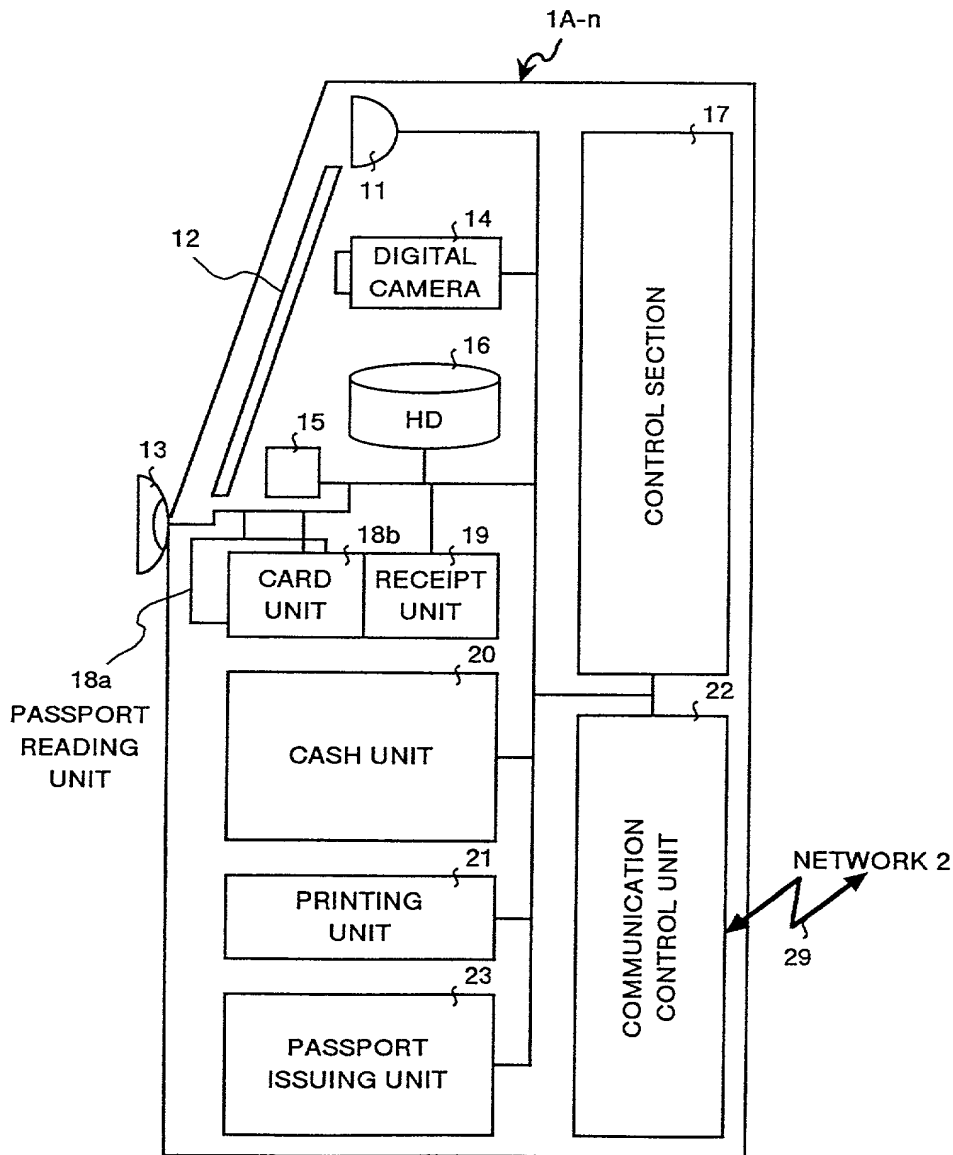


FIG.4

62

No	ITEM	DATA	REFERENCE
1	STATUS	XXX	1.ISSUANCE PERMITTED, 2.ISSUANCE DENIED, 3.UNDER EXAMINATION, 4.WAITING FOR RECEPTION , 5.ISSUED
2	PERSONAL MANAGEMENT NUMBER	XXX	
3	PASSPORT ISSUANCE NUMBER	XXX	
4	DATE OF ISSUANCE OF PASSPORT	XXX	ALSO USED AS SCHEDULED DATA OF ISSUANCE OF A PASSPORT
5	PASSPORT VALIDITY TERM NUMBER	XXX	
6	CENSOR REGISTER CODE	XXX	
7	CENSER REGISTER DATA	XXX	
8	ADDRESS CODE	XXX	
9	ADDRESS DATA	XXX	
10	NAME	XXX	
11	DATE OF BIRTH	XXX	1. MALE, 2.FEMALE
12	SEX	XXX	
13	TYPE OF CODE	XXX	1.FIGURE, 2.FINGER PRINT, 3.VOICE PRINT, 4.CORNEA, 5.OTHERS
14	CODED DATA	XXX	
15	PAYMENT METHOD	XXX	1.CASH, 2.CASH CARD, 3.CREDIT CARD
16	CODE FOR A FINANCIAL INSTITUTION FOR PAYMENT	XXX	
17	PAYMENT FLAG	XXX	1.NOT PAID, 2.PAID
18	TELEPHONE NUMBER	XXX	
19	E-MAIL ADDRESS	XXX	
20	PHOTOGRAPH	XXX	
21	SIGN	XXX	
22	PREPARATORY ITEM	XXX	

FIG.5A

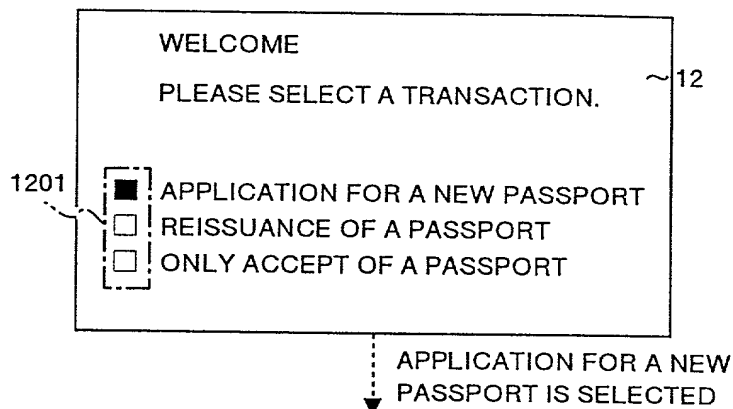


FIG.5B

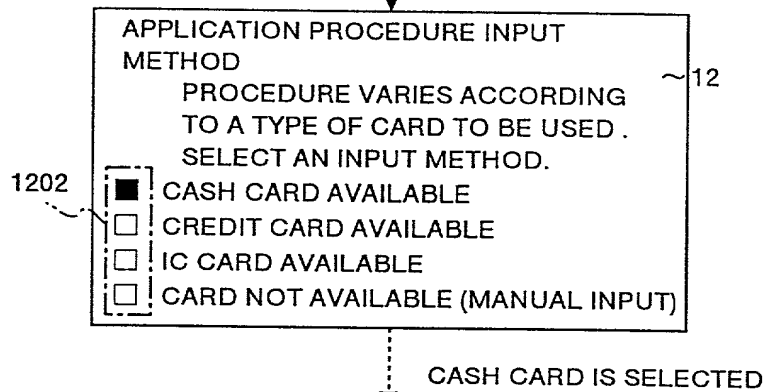


FIG.5C

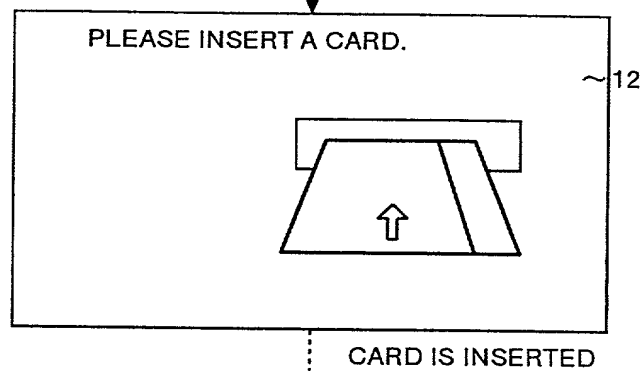


FIG.5D

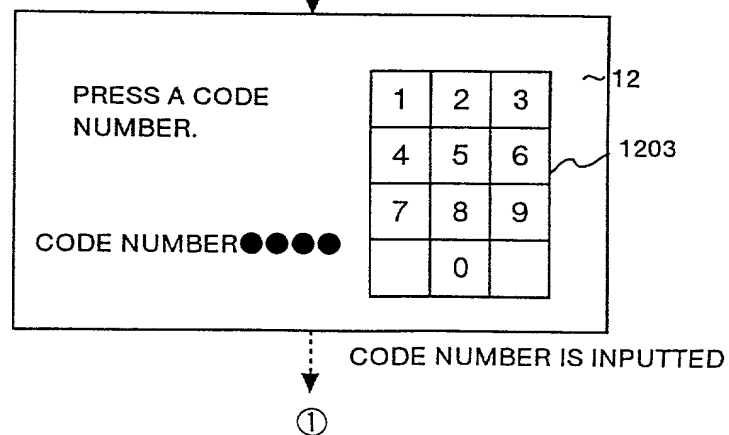


FIG.6A

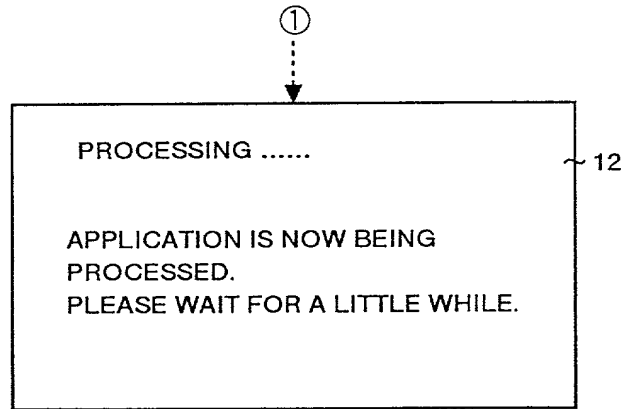
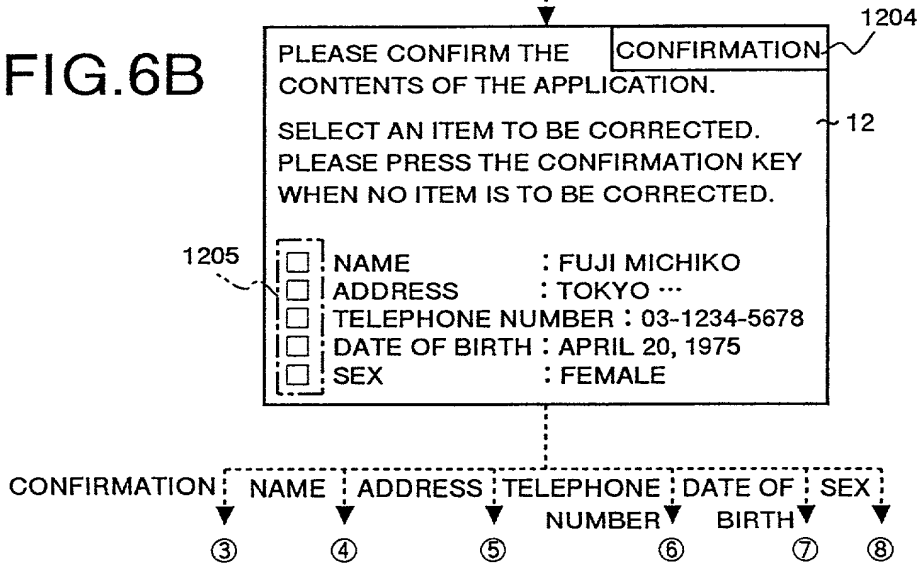


FIG.6B



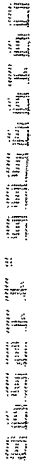
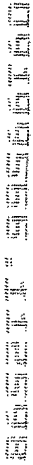
[illegible][illegible]



FIG.8A

⑥

INPUT TELEPHONE NUMBER AND  
PRESS THE CONFIRMATION KEY.

INPUT WRITE  
FROM AREA CODE  
03-1234-5678

CONFIRMATION

1	2	3
4	5	6
7	8	9
—	0	

②

FIG.8B

⑦

INPUT DATE OF BIRTH AND PRESS  
THE CONFIRMATION KEY.

YEAR \_\_\_\_ MONTH \_\_\_\_ DAY \_\_\_\_

• ERA    MEIJI TAISHO SHOWA HEISEI

• PLEASE PRESS NECESSARY KEYS.

1
2
3
4
5
6
7
8
9
0

CONFIRMATION

②

FIG.8C

⑧

SELECT THE SEX

1213

MALE

1214

FEMALE

②

FIG.9A

③

PHOTOGRAPHING .....	CONFIRMATION
<p>YOUR PHOTOGRAPH WILL BE TAKEN. SET YOUR HEAD AT A RIGHT POSITION.</p> <p>PHOTOGRAPH WILL BE TAKEN AUTOMATICALLY IN ABOUT 5 SECONDS AFTER THE CONFIRMATION KEY IS PRESSED.</p>	

1204

12

RESULT OF EXAMINATION INDICATES THAT YOUR PASSPORT CAN BE ISSUED IMMEDIATELY

WHEN THE PASSPORT IS TO BE ISSUED ON A LATER DAY

⑩

FIG.9B

SIGNATURE	
<p>MAKE A SIGNATURE IN THE INPUT AREA ON THE SCREEN</p>	
<p>1215</p> <div style="border: 1px dashed black; padding: 5px; display: inline-block;">FUJI MICHIKO</div>	

12

FIG.9C

PROCESSING .....	
<p>YOUR APPLICATION IS NOW BEING PROCESSED. PLEASE WAIT FOR A WHILE.</p>	

12

FIG.9D

CONFIRM THE CHARGES. PAYMENT SHOULD BE MADE WITH A CARD. PLEASE PRESS THE CONFIRMATION KEY WHEN YOU HAVE CONFIRMED THE CHARGES.	CONFIRMATION								
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">• CHARGE FOR PASSPORT</td> <td style="width: 40%; text-align: right;">X○○○YEN</td> </tr> <tr> <td>• CHARGE FOR ISSUANCE OF PUBLIC DOCUMENTS</td> <td style="text-align: right;">X○○YEN</td> </tr> <tr> <td>• COMMISSION ( INCLUDING A CHARGE FOR PHOTOGRAPH)</td> <td style="text-align: right;">X○○YEN</td> </tr> <tr> <td style="border-top: 1px solid black;">TOTAL</td> <td style="text-align: right; border-top: 1px solid black;">?○○○YEN</td> </tr> </table>		• CHARGE FOR PASSPORT	X○○○YEN	• CHARGE FOR ISSUANCE OF PUBLIC DOCUMENTS	X○○YEN	• COMMISSION ( INCLUDING A CHARGE FOR PHOTOGRAPH)	X○○YEN	TOTAL	?○○○YEN
• CHARGE FOR PASSPORT	X○○○YEN								
• CHARGE FOR ISSUANCE OF PUBLIC DOCUMENTS	X○○YEN								
• COMMISSION ( INCLUDING A CHARGE FOR PHOTOGRAPH)	X○○YEN								
TOTAL	?○○○YEN								

1204

12

PRESS THE CONFIRMATION  
KEY FOR ACKNOWLEDGEMENT

⑨

FIG.10A

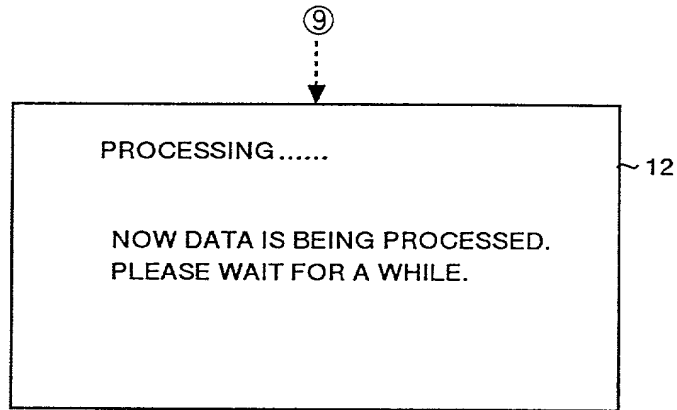


FIG.10B

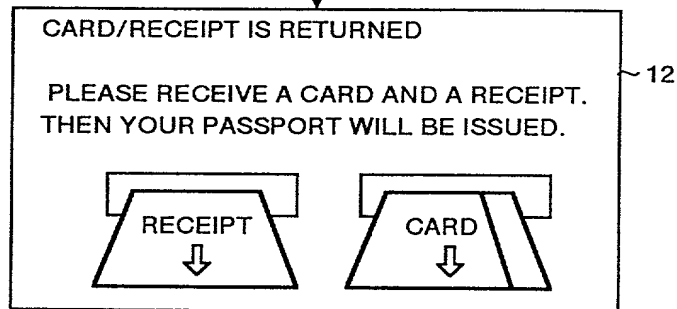


FIG.10C

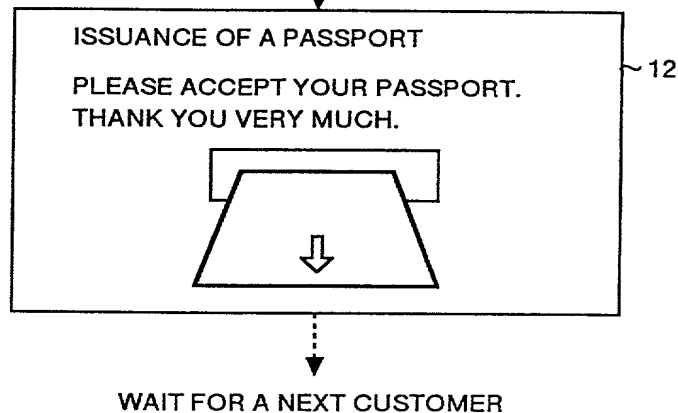


FIG.11A

⑩

YOUR PASSPORT WILL BE ISSUED ON  
A LATER DAY.  
SELECT A METHOD OF INFORMING  
YOU OF A DATE OF ISSUANCE.

1216

☐ TELEPHONE  
☐ POST CARD  
☐ AAA  
☐ E-MAIL

12

FIG.11B

⑪

⑫

E-MAIL      CONFIRMATION 1204

INPUT A MAIL ADDRESS,  
AND FINALLY PRESS THE CONFIRMATION KEY.

1217

A B C D E F G H I J K L M N  
O P Q R S T U V W X Y Z  
a b c d e f g h i j k l m n  
o p q r s t u v w x y z  
1 2 3 4 5 6 7 8 9 0 . @ -

12

FIG.11C

⑫

⑬

AAA      CONFIRMATION 1204

INPUT AN AAA ID, AND THEN PRESS  
THE CONFIRMATION KEY.

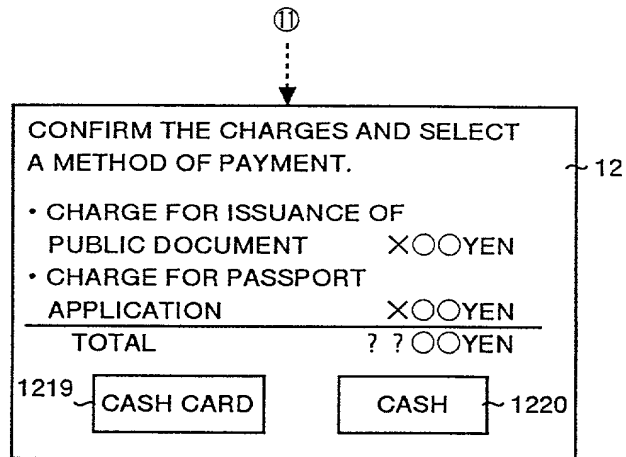
1218

A B C D E F G H I J K L M N  
O P Q R S T U V W X Y Z  
1 2 3 4 5 6 7 8 9 0

12

⑬

FIG.12A



CASH CARD IS SELECTED  
ENTRY OF A CODE NUMBER

FIG.12B

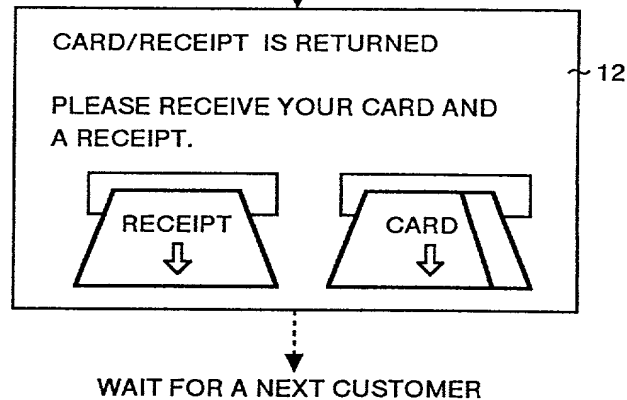


FIG.13

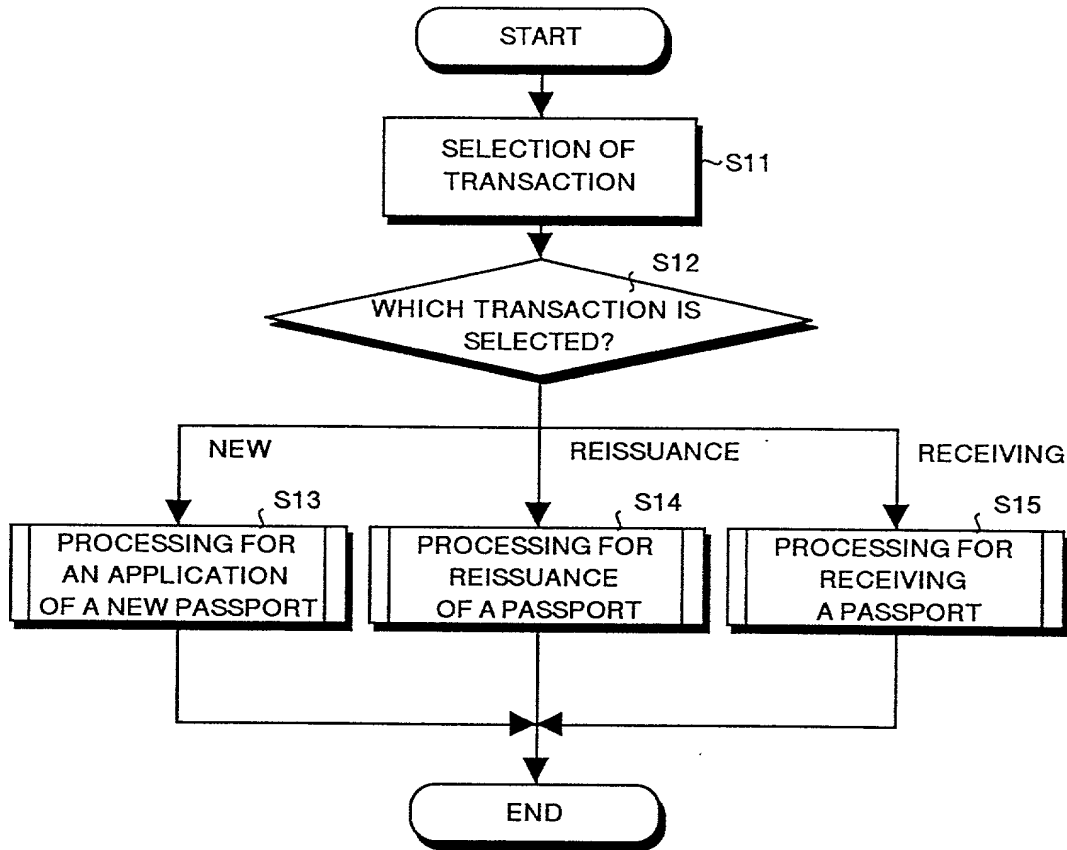


FIG.14

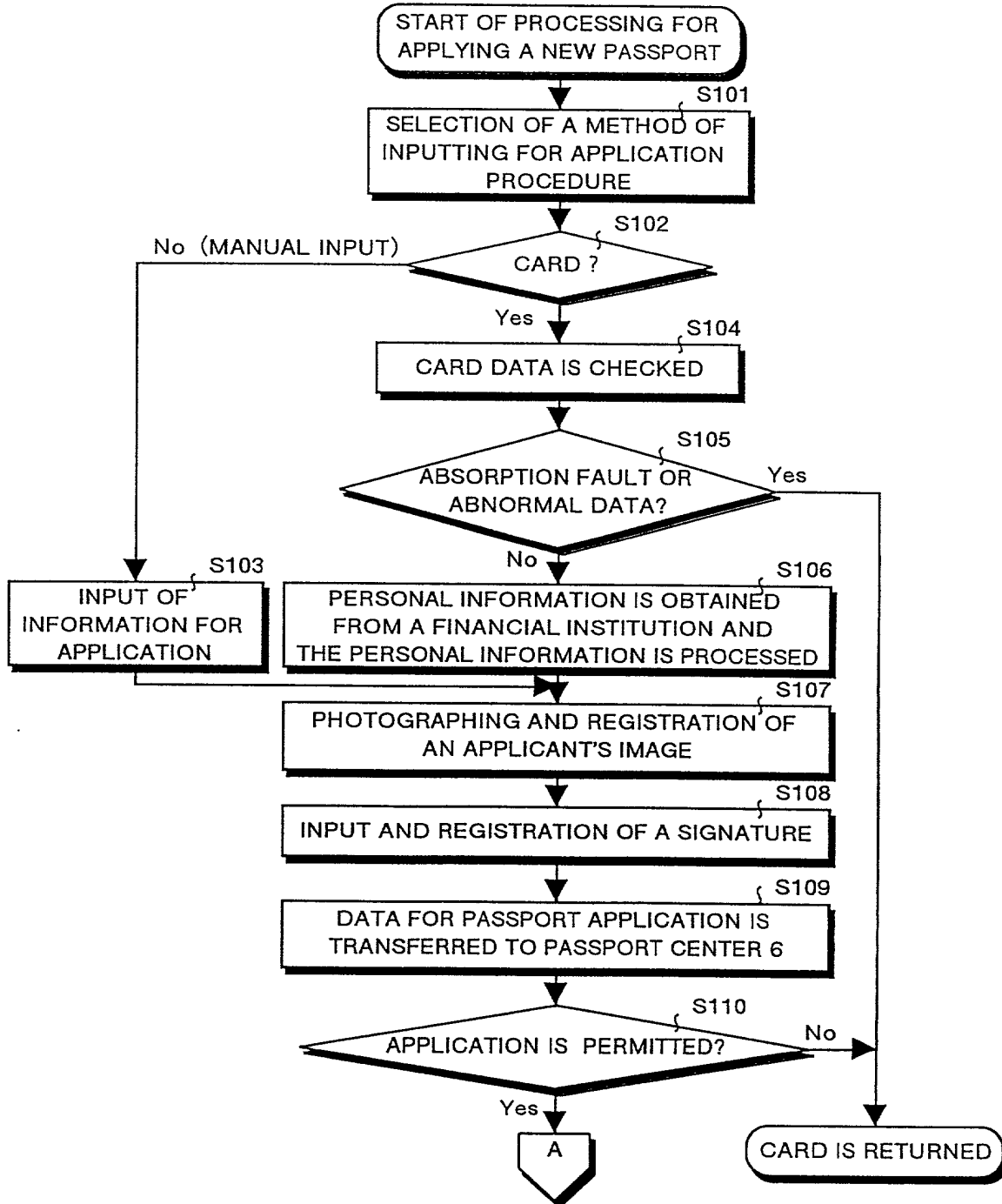


FIG.15

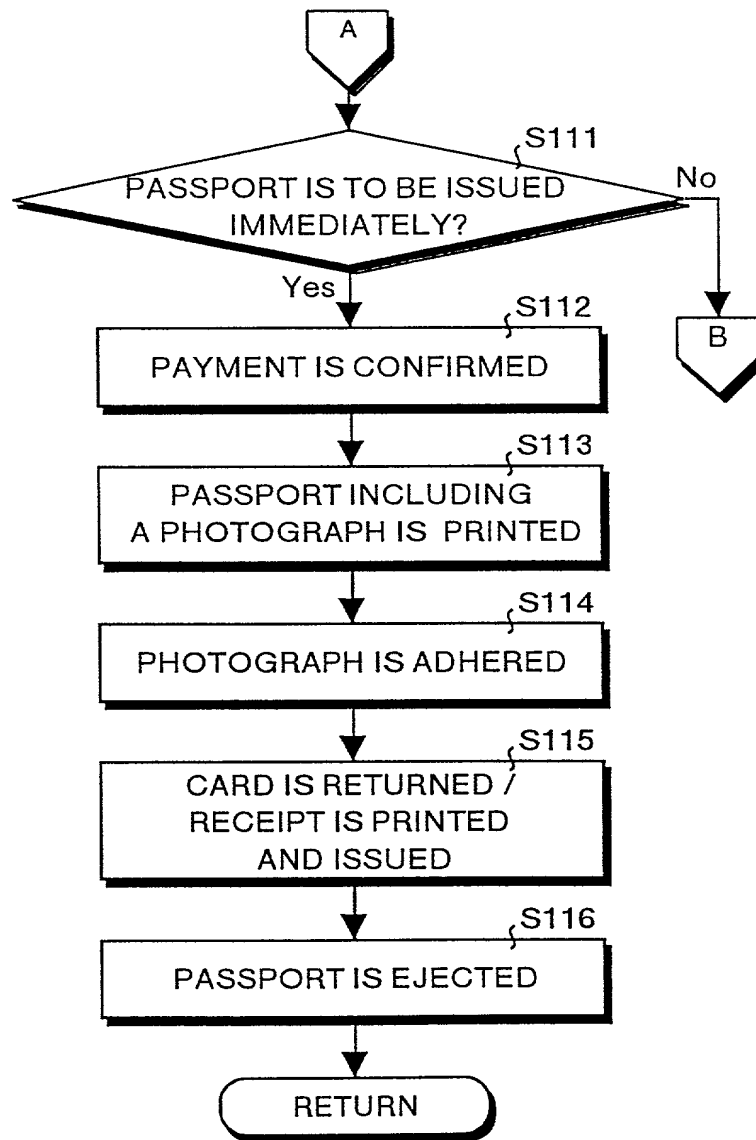




FIG.16

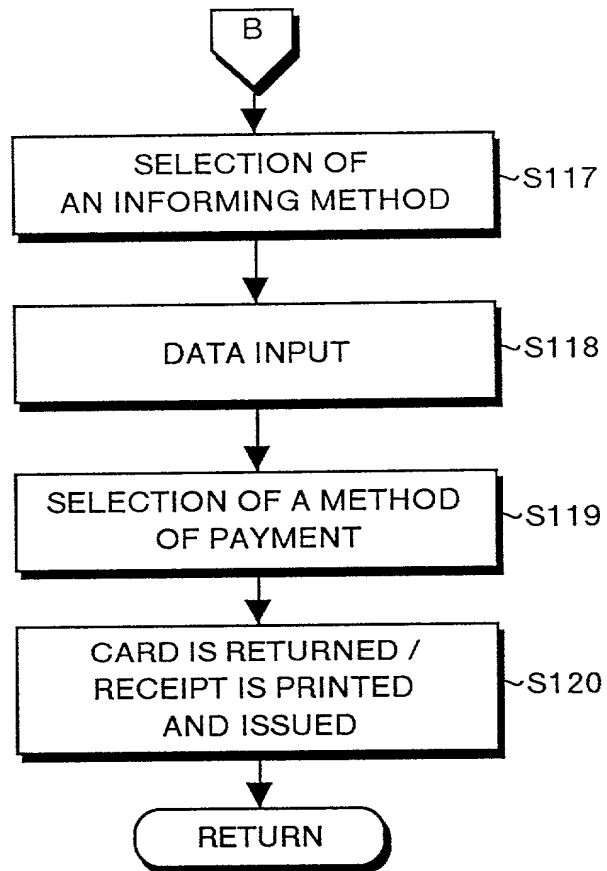


FIG.17A

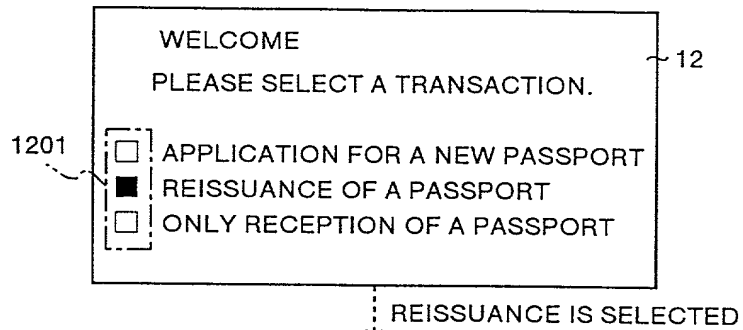


FIG.17B

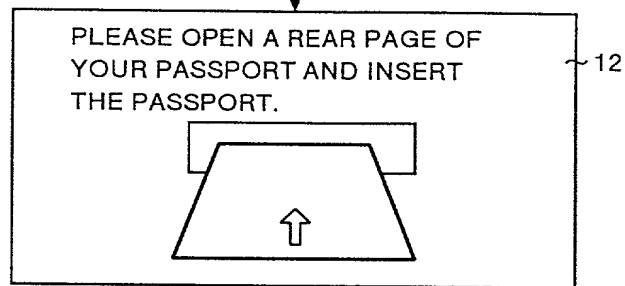


FIG.17C

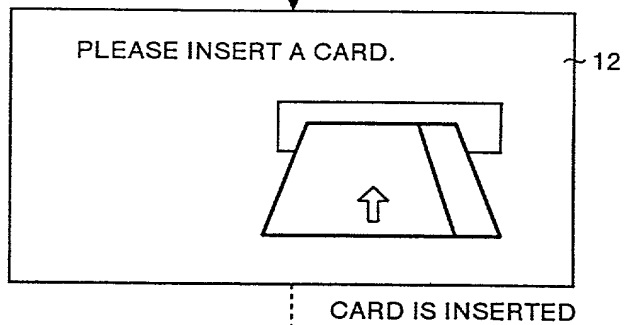


FIG.17D

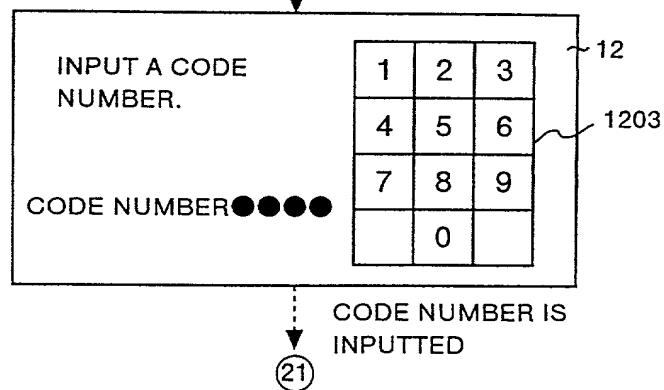


FIG.18A

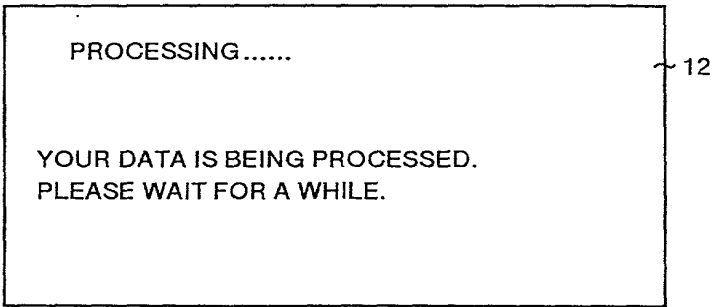


FIG.18B

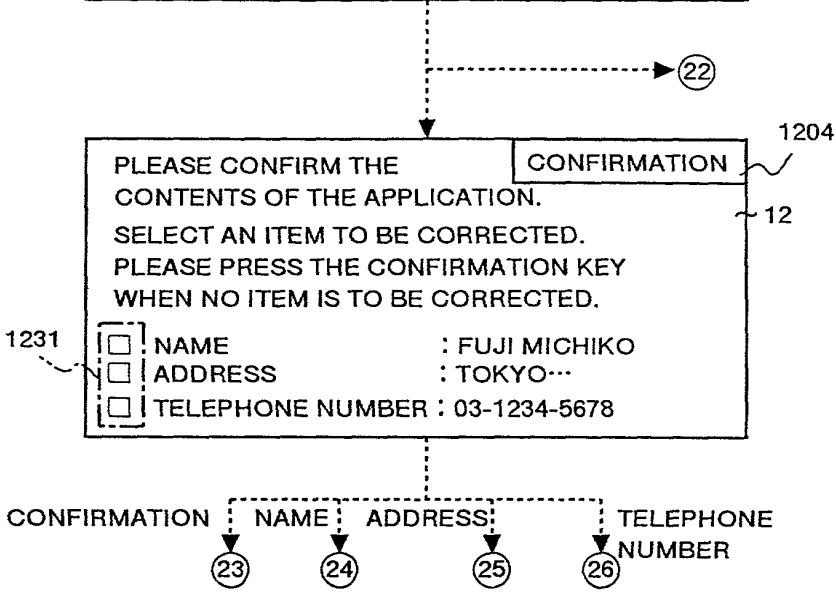


FIG.19A

(24)

INPUT NAME AND PRESS  
THE CONFIRMATION KEY.  
WHEN CORRECTING KANA OR KANJI,  
PLEASE PRESS NECESSARY KEYS.

CONFIRMATION

a	b	c	d	e	f	g
h	i	j	k	l	m	n
o	p	q	r	s	t	u
v	w	x	y	z		

KANA

KANJI

FIG.19B

(22)

(25)

INPUT ADDRESS AND PRESS  
THE CONFIRMATION KEY.  
WHEN CORRECTING TO KANA OR KANJI,  
NECESSARY KEYS.

CONFIRMATION

a	b	c	d	e	f	g	1	6
h	i	j	k	l	m	n	2	7
o	p	q	r	s	t	u	3	8
v	w	x	y	z	—		4	9
							5	0

KANA

KANJI

FIG.19C

(22)

(26)

INPUT TELEPHONE NUMBER AND  
PRESS THE CONFIRMATION KEY.

CONFIRMATION

INPUT WRITE  
FROM AREA CODE  
03-1234-5678

1	2	3
4	5	6
7	8	9
—	0	

FIG.20A

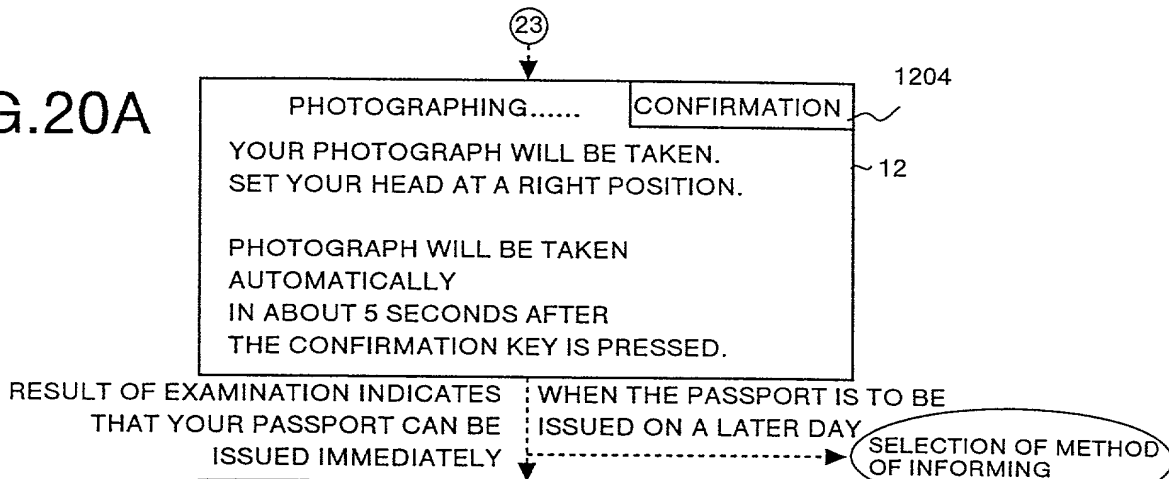


FIG.20B

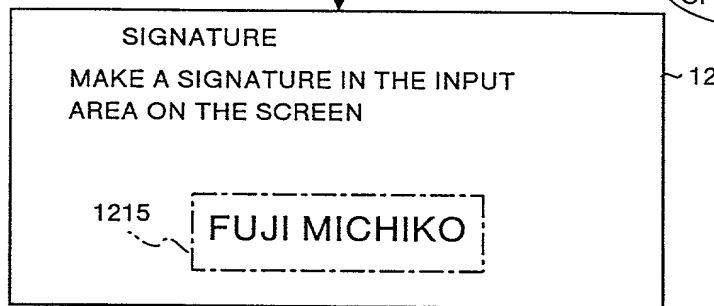


FIG.20C

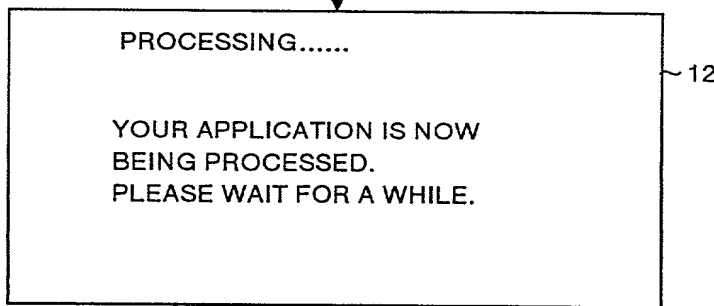
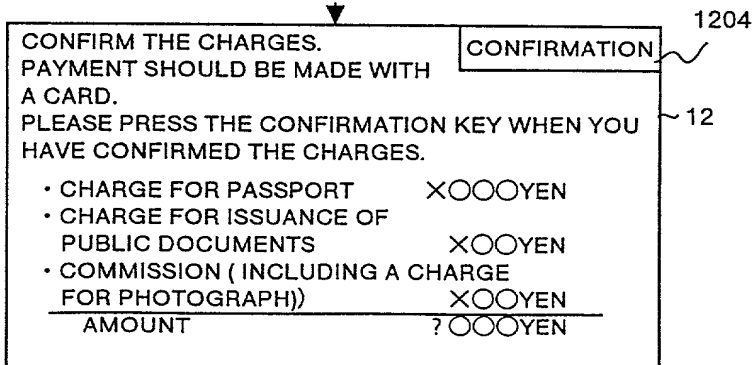


FIG.20D



REINPUT OF CODE NUMBER

FIG.21A

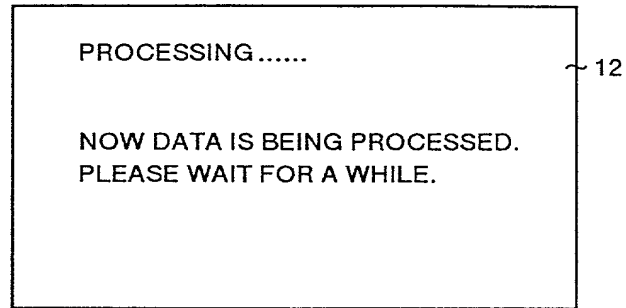


FIG.21B

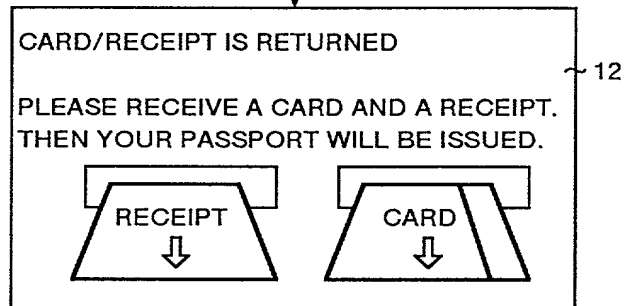
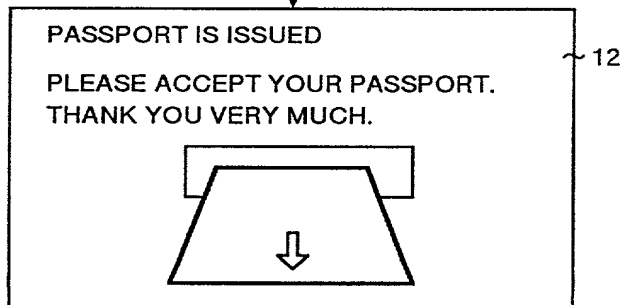


FIG.21C



WAIT FOR A NEXT CUSTOMER

FIG.22

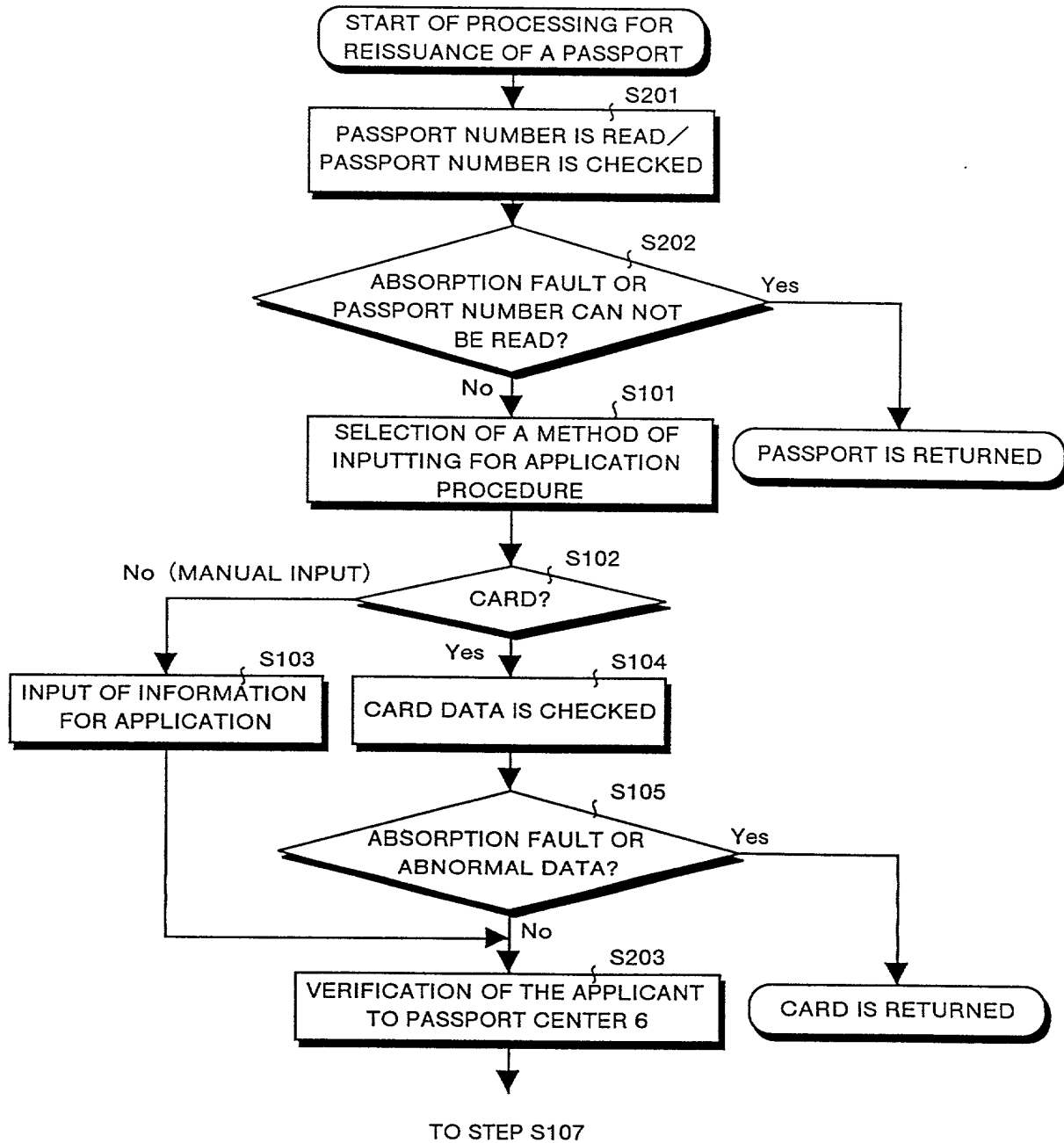


FIG.23A

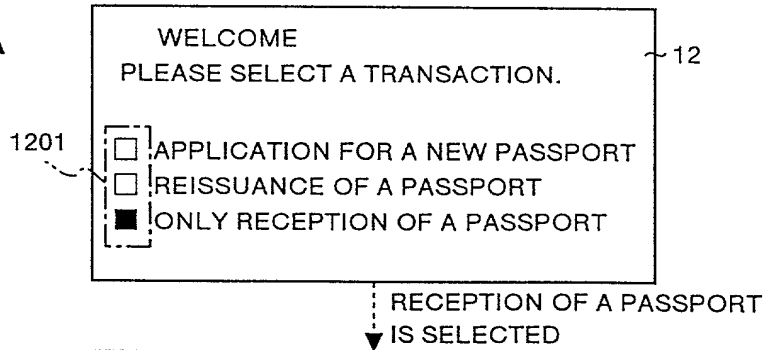


FIG.23B

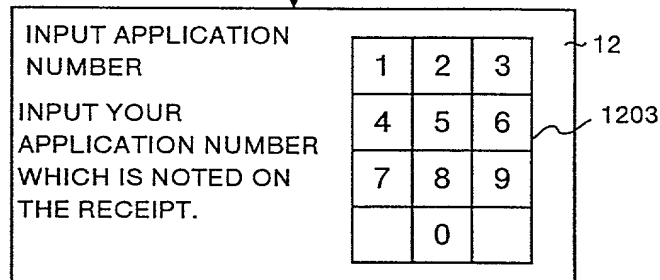


FIG.23C

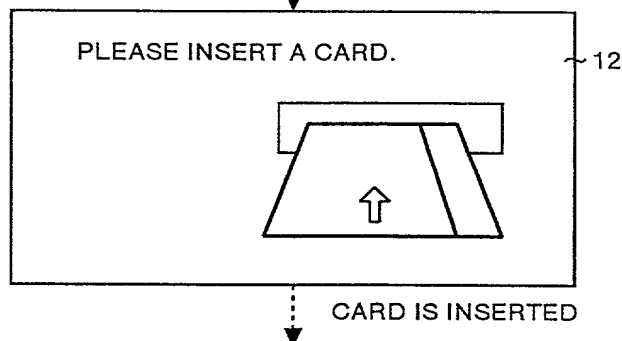


FIG.23D

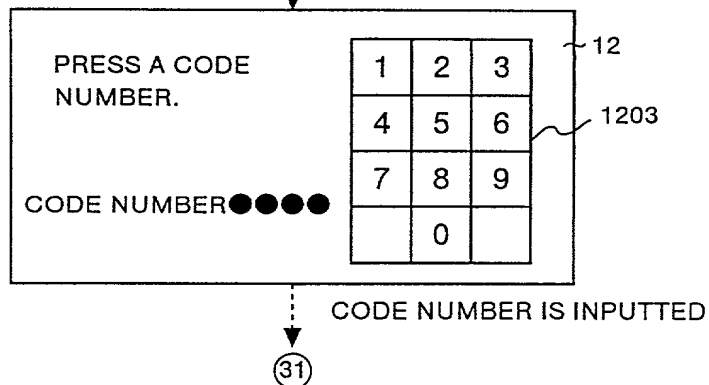




FIG.24A

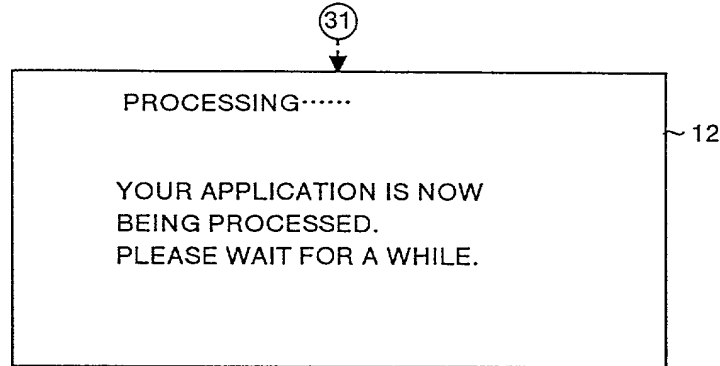


FIG.24B

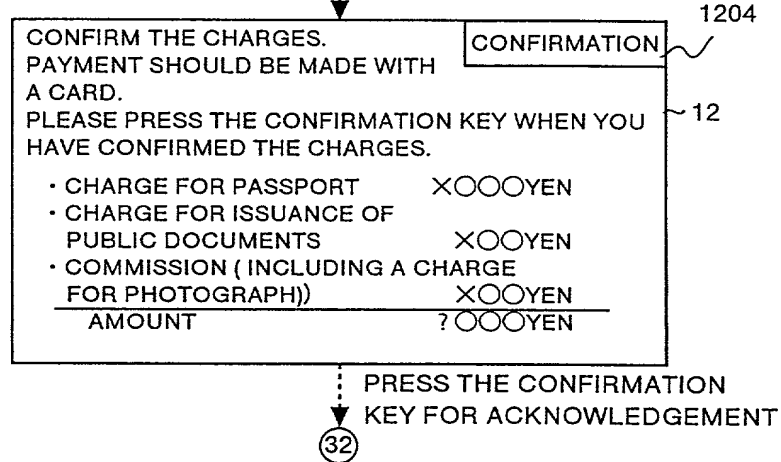


FIG.25A

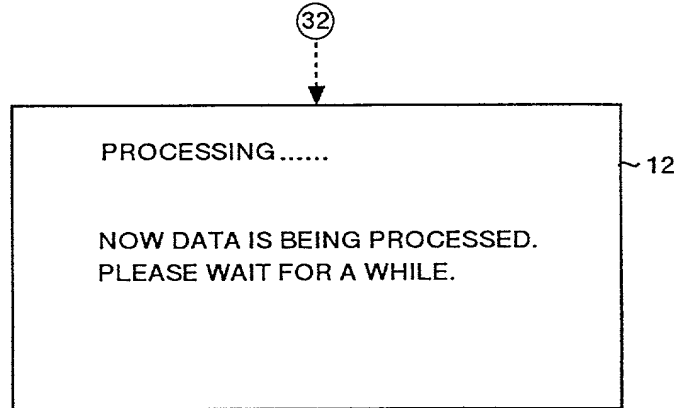


FIG.25B

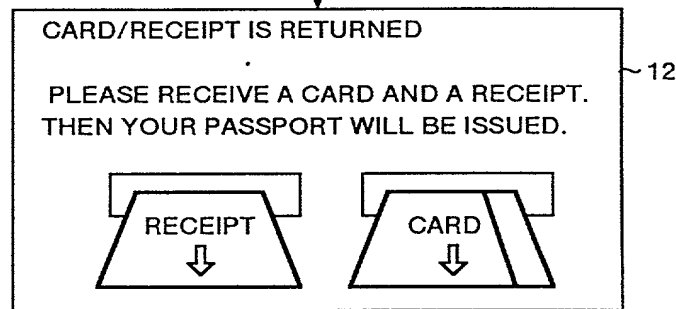


FIG.25C

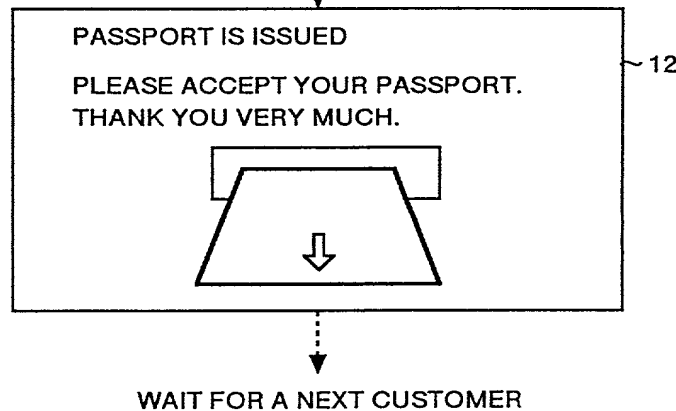


FIG.26

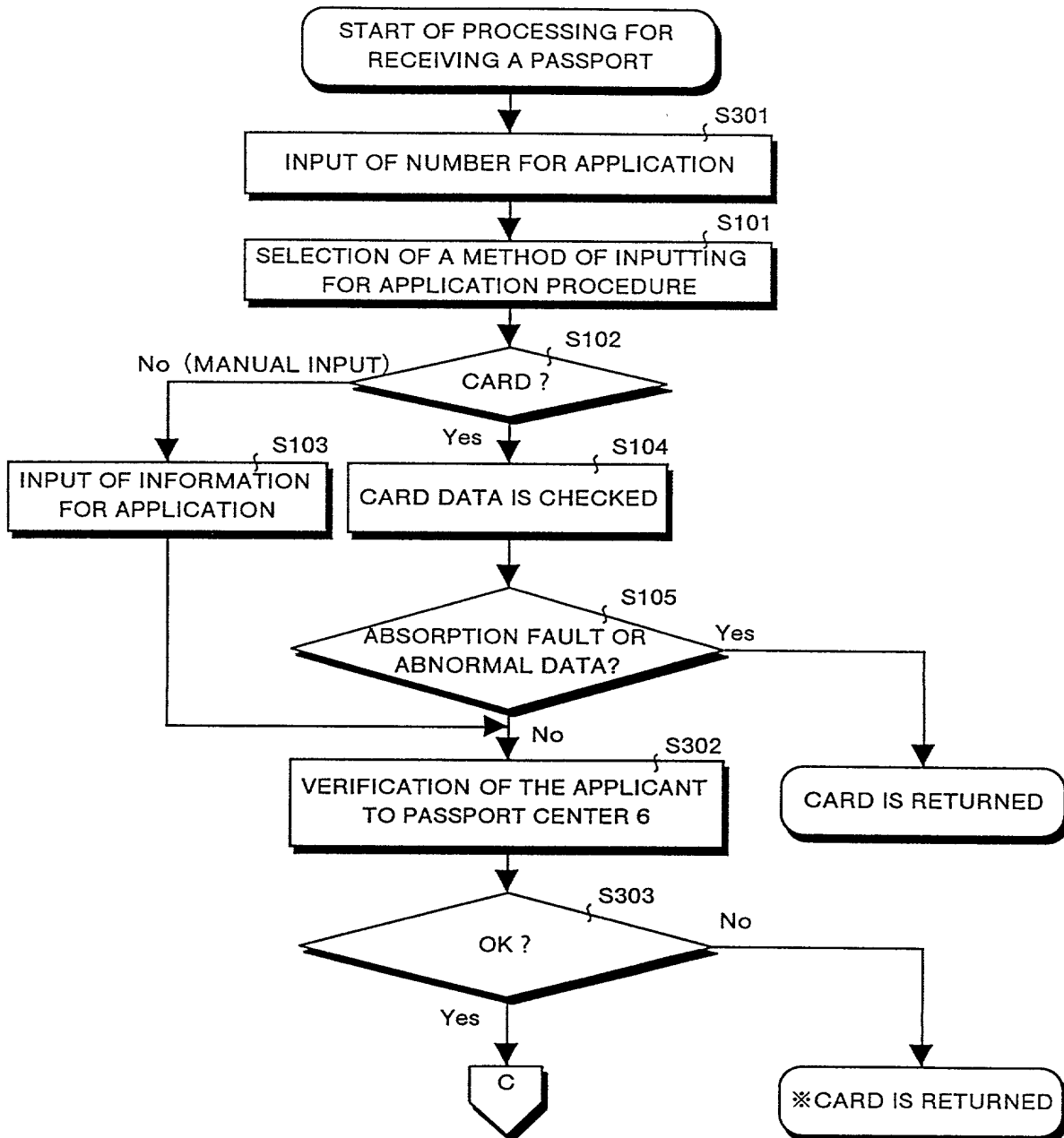


FIG.27

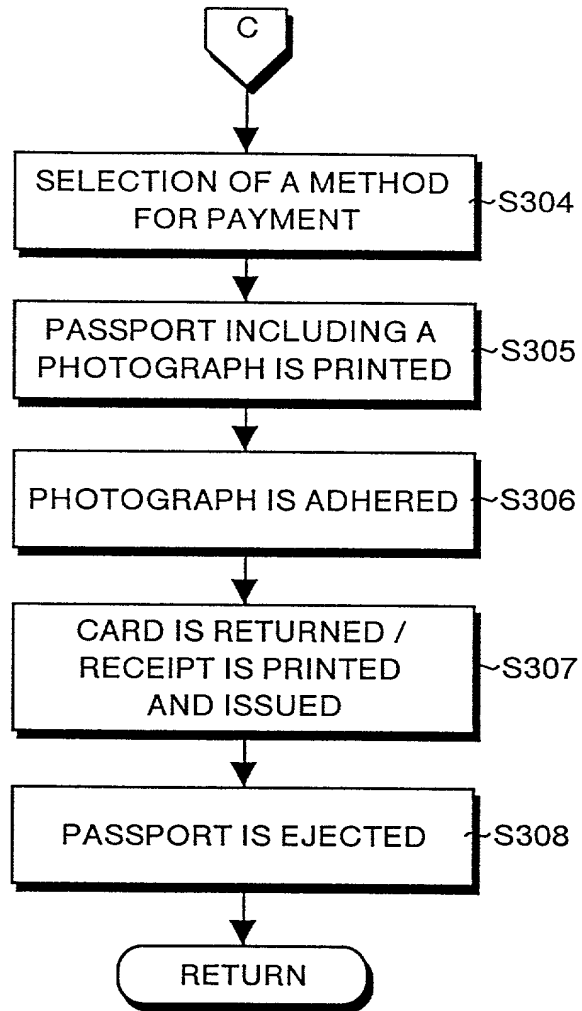


FIG.28

17a

APPLICATION NUMBER	PHOTOGRAPH DATA	SIGNATURE DATA
N1	P1	S1
N2	P2	S2
⋮	⋮	⋮

FIG.29A

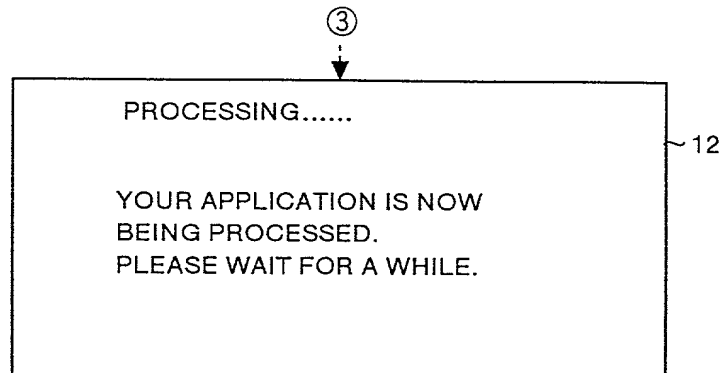


FIG.29B

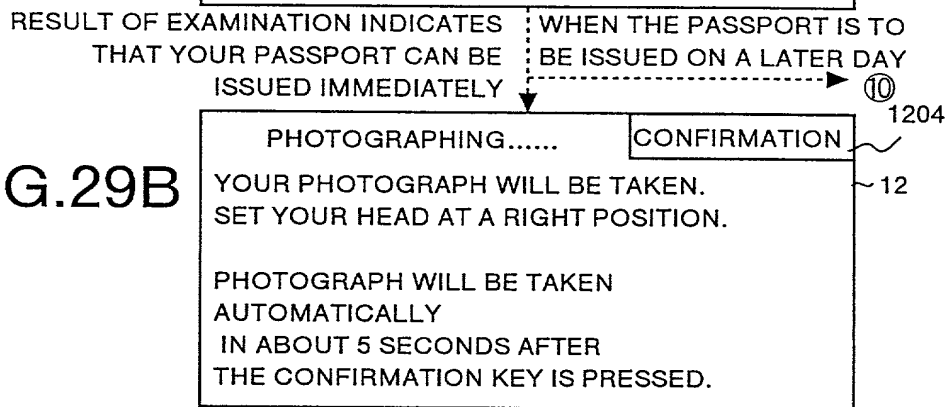


FIG.29C

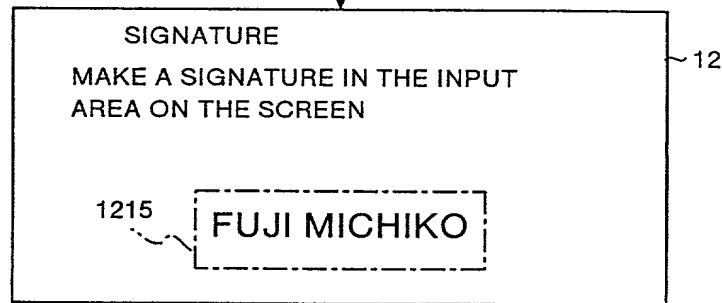


FIG.29D

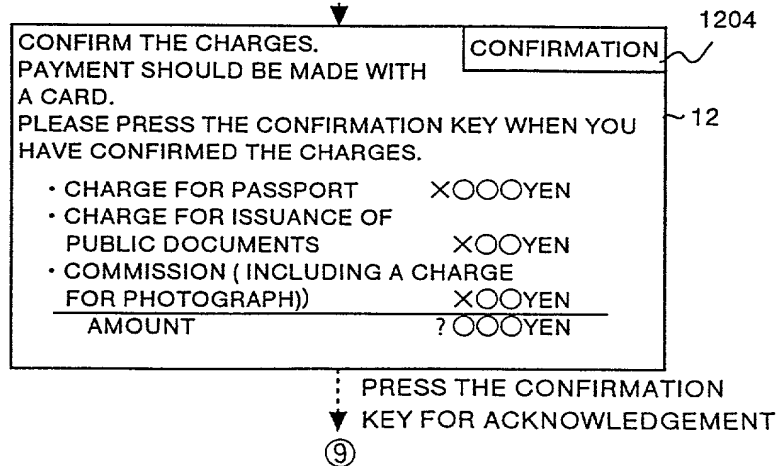


FIG.30

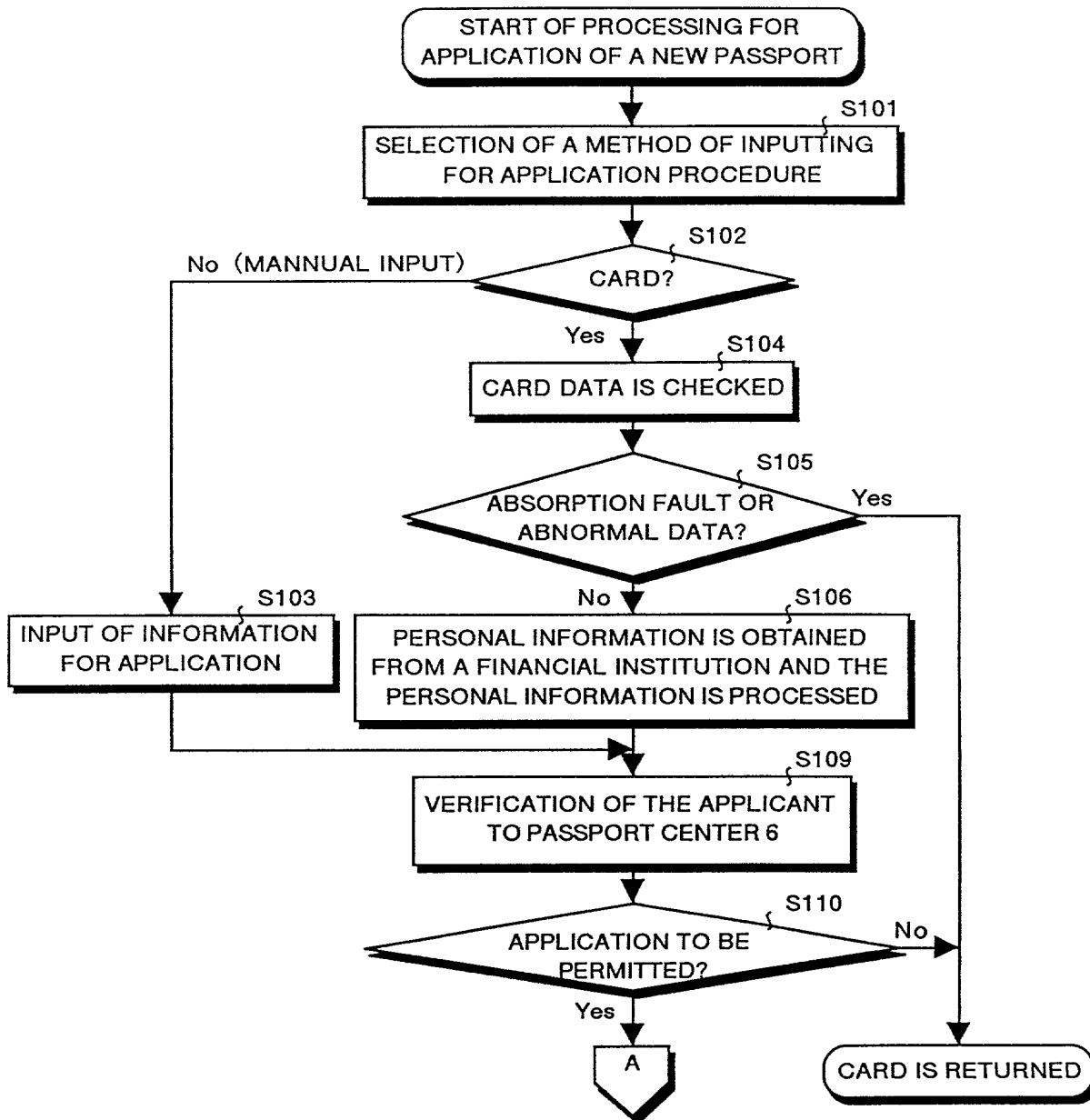


FIG.31

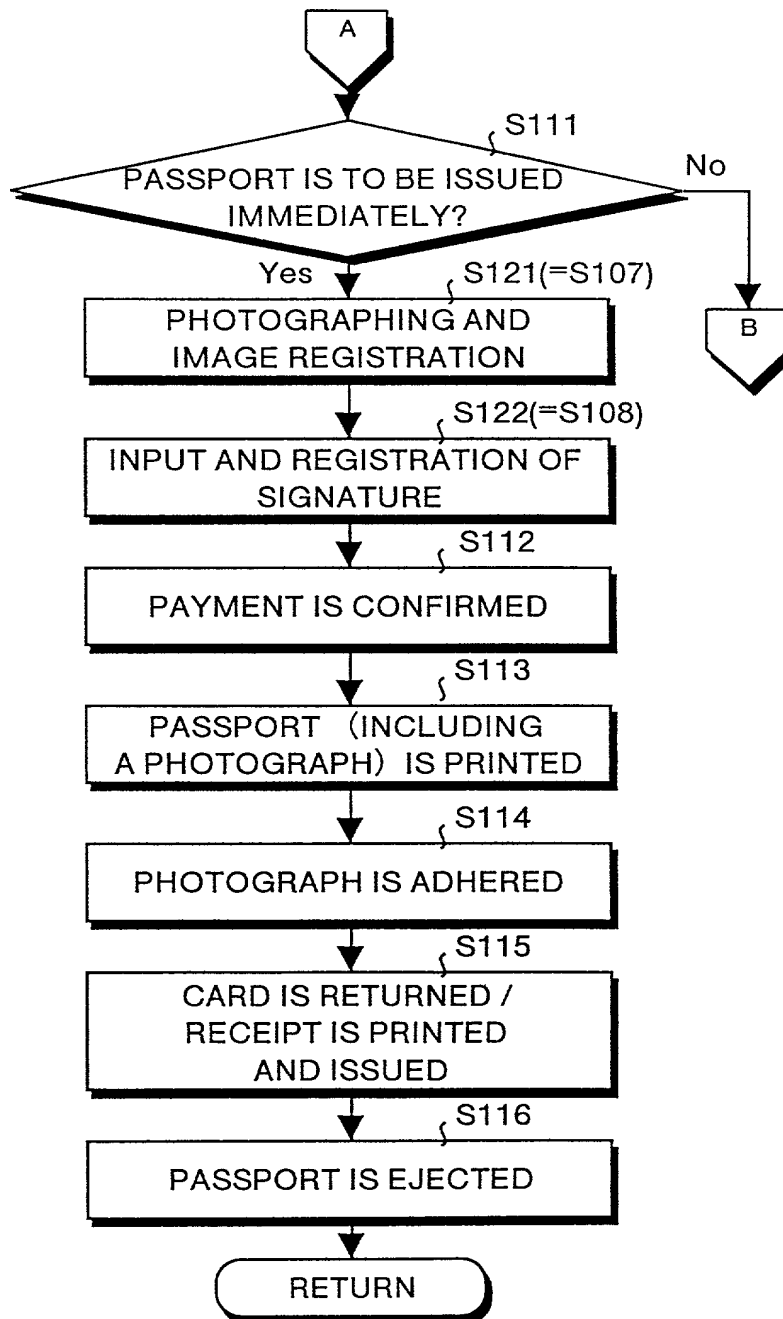




FIG.32A

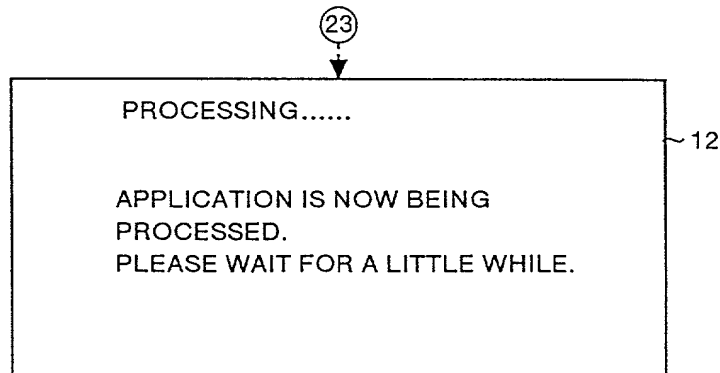


FIG.32B

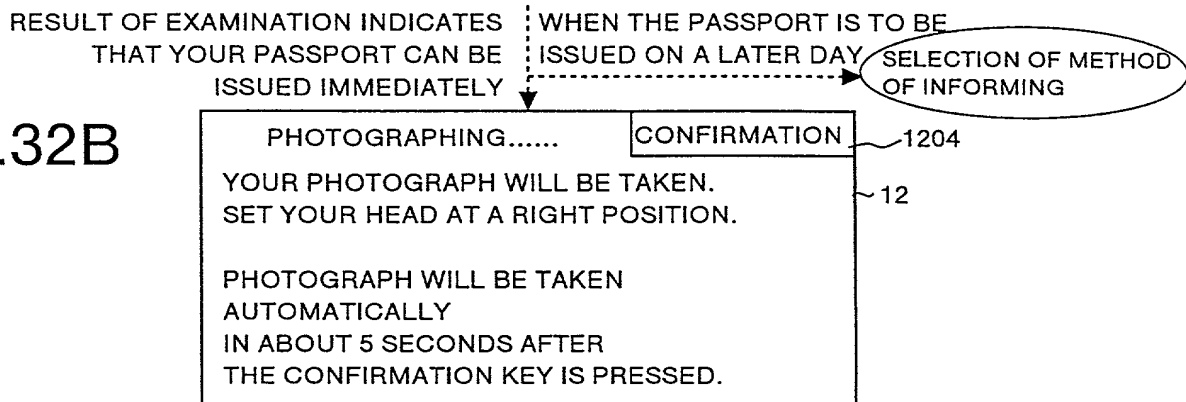


FIG.32C

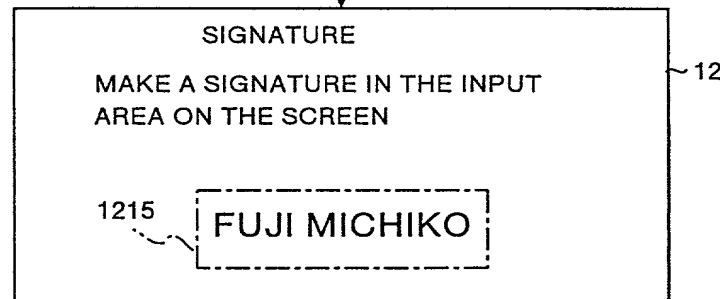


FIG.32D

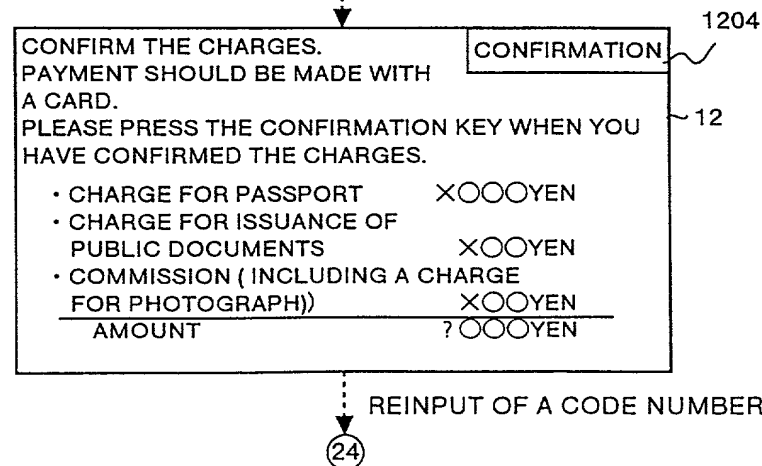


FIG.33A

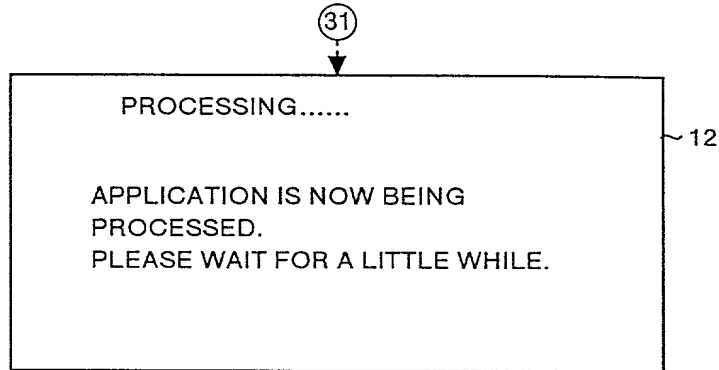


FIG.33B

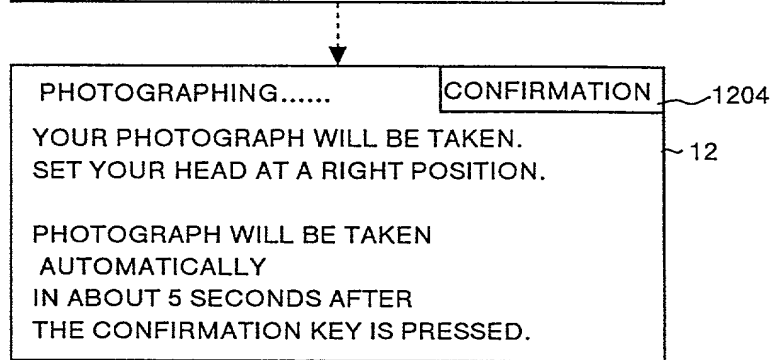


FIG.33C

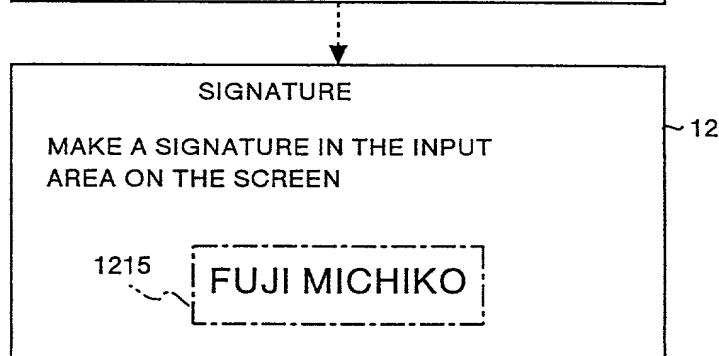


FIG.33D

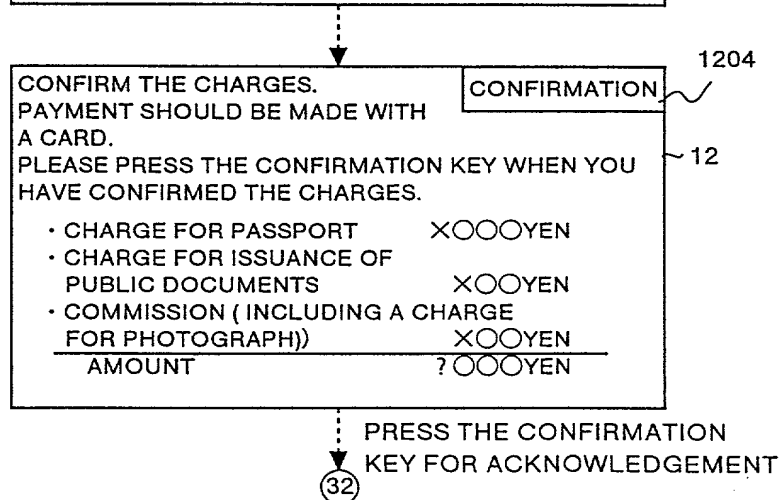


FIG.34

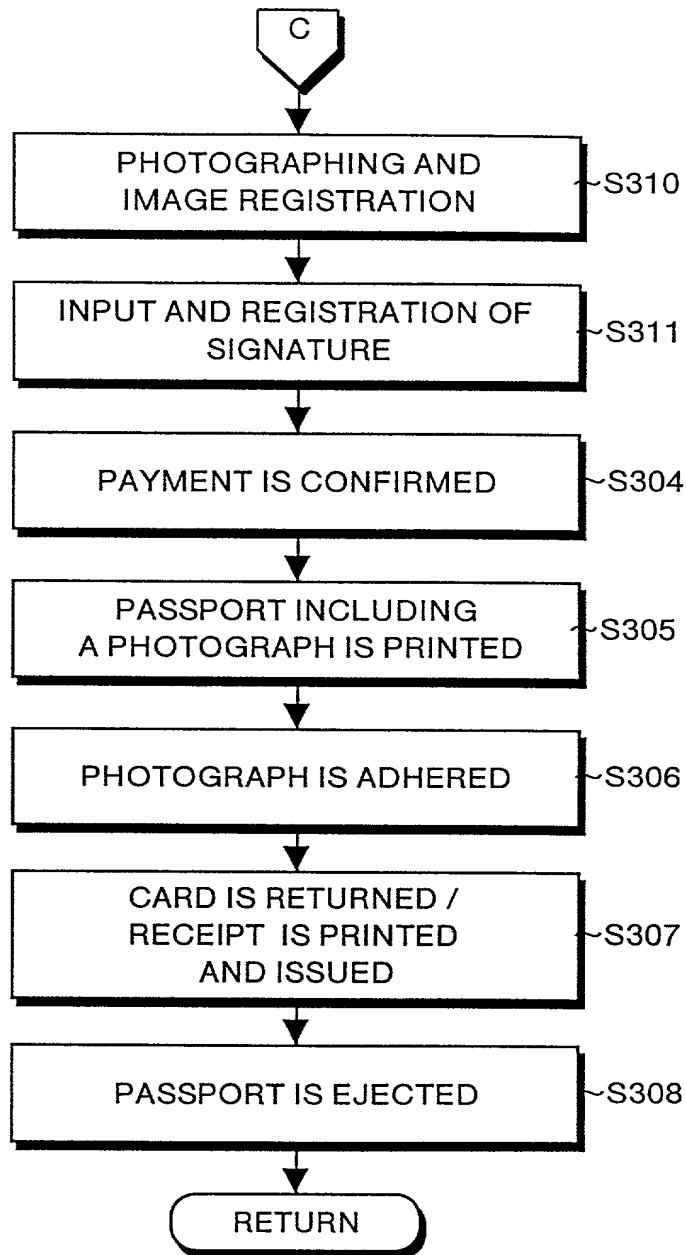


FIG.35

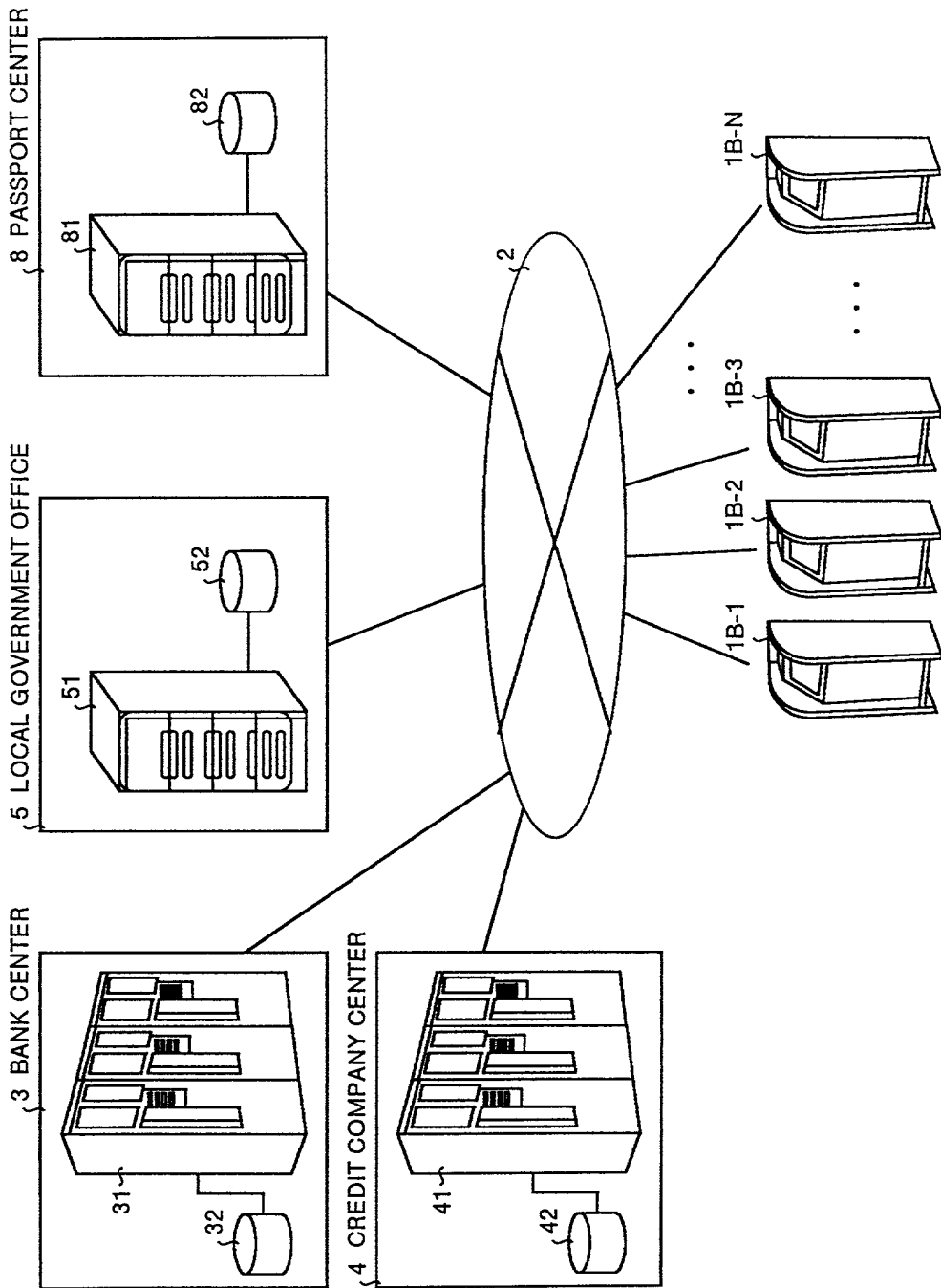


FIG.36

FROM STEP S108 (IN CASE OF EMBODIMENT 2:  
STEP S103 OR S106)

INFORMATION FOR PASSPORT  
APPLICATION IS OBTAINED FROM LOCAL  
GOVERNMENT OFFICE 5

S109A

APPLICATION SUBMITTED TO  
PASSPORT CENTER 6 BASED ON  
THE INPUTTED INFORMATION

S109B

TO STEP S100

FIG.37

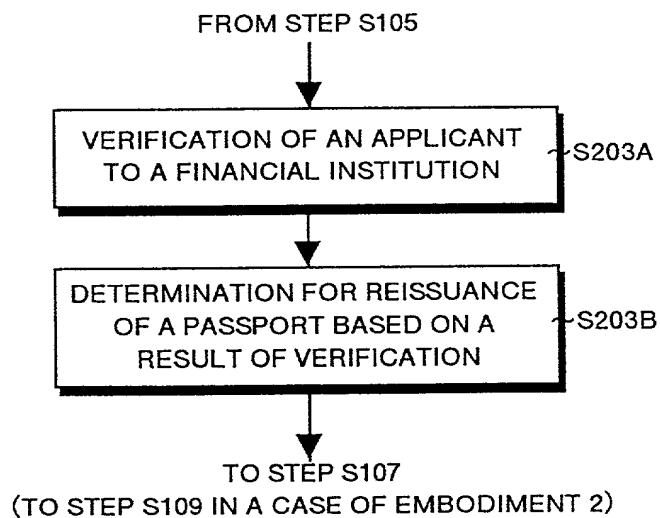


FIG.38

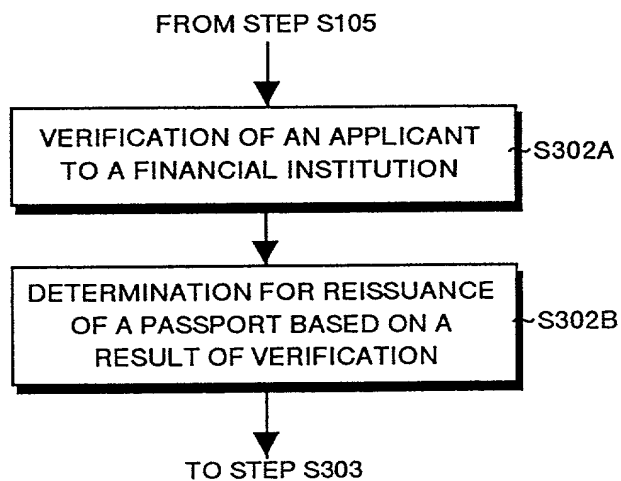


FIG.39

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No	ITEM	DATA	REFERENCE
1	IC CARD CONTROL SECTION	XXX	
2	PERSONAL MANAGEMENT NUMBER	XXX	
3	PASSPORT ISSUANCE NUMBER	XXX	
4	DATE OF ISSUANCE OF PASSPORT	XXX	ALSO USED AS SCHEDULED DATA OF ISSUANCE OF A PASSPORT
5	PASSPORT VALIDITY TERM NUMBER	XXX	
6	CARD VALIDITY TERM	XXX	
7	CENTER REGISTER DATA	XXX	
8	CENSER REGISTER CODE	XXX	
9	ADDRESS CODE	XXX	
10	ADDRESS DATA	XXX	
11	NAME	XXX	1. MALE, 2.FEMALE
12	DATE OF BIRTH	XXX	
13	SEX	XXX	
14	TYPE OF CODE	XXX	1.FIGURE, 2.FINGER PRINT, 3.VOICE PRINT, 4.CORNEA, 5. OTHERS
15	CODED DATA	XXX	
16	AMOUNT DATA	XXX	
17	UNIT OF CURRENCY	XXX	
18	TRANSACTION HISTORY	XXX	
19	TELEPHONE NUMBER	XXX	
20	E-MAIL ADDRESS	XXX	
21	PREPARATORY ITEM1	XXX	
22	PREPARATORY ITEM2	XXX	

# Declaration and Power of Attorney for U.S. Patent Application

特許出願宣言書及び委任状

## Japanese Language Declaration

### 日本語宣言書

下記の氏名の発明者として、私は以下の通り宣言します。 As a below named inventor, I hereby declare that:

私の住所、私書箱、国籍は下記の私の氏名の後に記載され  
て通りです。

My residence, post office address and citizenship are as stated  
next to my name.

下記の名称の発明に関して請求範囲に記載され、特許出願  
している発明内容について、私が最初かつ唯一の発明者（下  
記の氏名が一つの場合）もしくは最初かつ共同発明者である  
と（下記の名称が複数の場合）信じています。

I believe I am the original, first and sole inventor (if only one name  
is listed below) or an original, first and joint inventor (if plural  
names are listed below) of the subject matter which is claimed and  
for which a patent is sought on the invention entitled

PASSPORT TRANSACTION APPARATUS,  
PASSPORT TRANSACTION METHOD, AND  
PASSPORT TRANSACTION SYSTEM

上記発明の明細書（下記の欄でx印がついていない場合は、  
本書に添付）は、

the specification of which is attached hereto unless the following  
box is checked:

☐ \_\_月\_\_日に提出され、米国出願番号または特許協定条約  
国際出願番号を\_\_\_\_とし、  
（該当する場合）\_\_\_\_に訂正されました。

☐ was filed on \_\_\_\_\_  
as United States Application Number or  
PCT International Application Number  
\_\_\_\_\_ and was amended on  
\_\_\_\_\_ (if applicable).

私は、特許請求範囲を含む上記訂正後の明細書を検討し、  
内容を理解していることをここに表明します。

I hereby state that I have reviewed and understand the contents of  
the above identified specification, including the claims, as  
amended by any amendment referred to above.

私は、連邦規則法典第37編第1条56項に定義されると  
おり、特許資格の有無について重要な情報を開示する義務が  
あることを認めます。

I acknowledge the duty to disclose information which is material to  
patentability as defined in Title 37, Code of Federal Regulations,  
Section 1.56.



# Japanese Language Declaration (日本語宣言書)

私は、米国法典第35編119条(a)-(d)項又は365条(b)項に基づき下記の、米国外の国の少なくとも一カ国を指定している特許協力条約365(a)項に基づく国際出願、又は外国での特許出願もしくは発明者証の出願についての外国優先権をここに主張するとともに、優先権を主張している、本出願の前に出願された特許または発明者証の外国出願を以下に、枠内をマークすることで、示しています。

## Prior Foreign Application(s)

外国での先行出願  
10-207885

Japan

(Number)  
(番号)

(Country)  
(国名)

(Number)  
(番号)

(Country)  
(国名)

私に、第35編米国法典119条(e)項に基づいて下記の米国外特許出願規定に記載された権利をここに主張いたします。

(Application No.)  
(出願番号)

(Filing Date)  
(出願日)

私は、下記の米国法典第35編120条に基づいて下記の米国外特許出願に記載された権利、又は米国を指定している特許協力条約365条(c)に基づき権利をここに主張します。また、本出願の各請求範囲の内容が米国法典第35編112条第1項又は特許協力条約で規定された方法で先行する米国外特許出願に開示されていない限り、その先行米国外出願書提出日以降で本出願書の日本国内または特許協力条約国際提出日までの期間中に入手された、連邦規則法典第37編1条56項で定義された特許資格の有無に関する重要な情報について開示義務があることを認識しています。

(Application No.)  
(出願番号)

(Filing Date)  
(出願日)

(Application No.)  
(出願番号)

(Filing Date)  
(出願日)

私は、私自身の知識に基づいて本宣言書中で私が行なう表明が真実であり、かつ私の入手した情報と私の信じることに基づき表明が全て真実であると信じていること、さらに故意になされた虚偽の表明及びそれと同等の行為は米国法典第18編第1001条に基づき、罰金または拘禁、もしくはその両方により処罰されること、そしてそのような故意による虚偽の声明を行えば、出願した、又は既に許可された特許の有効性が失われることを認識し、よってここに上記のごとく宣誓を致します。

I hereby claim foreign priority under Title 35, United States Code, Section 119 (a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed.

Priority Not Claimed  
優先権主張なし

23/Jul./1998

(Day/Month/Year Filed)  
(出願年月日)

(Day/Month/Year Filed)  
(出願年月日)

I hereby claim the benefit under Title 35, United States Code, Section 119(e) of any United States provisional application(s) listed below.

(Application No.)  
(出願番号)

(Filing Date)  
(出願日)

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s), or 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code Section 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of application.

(Status: Patented, Pending, Abandoned)  
(現況: 特許許可済、係属中、放棄済)

(Status: Patented, Pending, Abandoned)  
(現況: 特許許可済、係属中、放棄済)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Docket No. \_\_\_\_\_ (cont'd.) ARMSTRONG, WESTERMAN, HATTORI, McLELAND &amp; NAUGHTON

### Japanese Language Declaration (日本語宣言書)

委任状： 私は下記の発明者として、本出願に関する一切の  
手続きを米特許商標局に対して遂行する弁理士または代理人  
として、下記の者を指名いたします。（弁理士、または代理  
人の氏名及び登録番号を明記のこと）

POWER OF ATTORNEY: As a named inventor, I hereby appoint  
the following attorney(s) and/or agent(s) to prosecute this  
application and transact all business in the Patent and Trademark  
Office connected therewith (list name and registration number)  
See list of attorneys and/or agents on page 5.

書類送付先

Send Correspondence to:

ARMSTRONG, WESTERMAN, HATTORI,  
McLELAND & NAUGHTON  
1725 K Street, N.W., Suite 1000  
Washington, D.C. 20006

直接電話連絡先：（名前及び電話番号）

Direct Telephone Calls to: (name and telephone number)

Telephone: (202) 659-2930 Fax: (202) 887-0357

唯一または第一発明者名

Full name of sole or first inventor

Hiroyuki SAITO

発明者の署名

日付

Inventor's signature

Date

Hiroyuki Saito Nov. 10, 1998

住所

Residence

Gunma, Japan

国籍

Citizenship

Japanese

私書箱

Post Office Address c/o FUJITSU TERMINAL  
SYSTEMS LIMITED8-3, TONYAMACHI 1-CHOME,  
MAEBASHI, GUNMA 371-0855 JAPAN

第二共同発明者

Full name of second joint inventor, if any

Tomoe NAGUMO

第二共同発明者

日付

Second inventor's signature

Date

TOMOE NAGUMO Nov. 10, 1998

住所

Residence

Gunma, Japan

国籍

Citizenship

Japanese

私書箱

Post Office Address c/o FUJITSU TERMINAL  
SYSTEMS LIMITED8-3, TONYAMACHI 1-CHOME,  
MAEBASHI, GUNMA 371-0855 JAPAN

（第三以降の共同発明者についても同様に記載し、署名をす  
ること）

(Supply similar information and signature for third and subsequent  
joint inventors.)

第三共同発明者		Full name of third joint inventor, if any Katsuyoshi MORI	
第三発明者の署名	日付	Third inventor's signature KATSUYOSHI MORI	Date Nov. 10, 1998
住所		Residence Gunma, Japan	
国籍		Citizenship Japanese	
私書箱		Post Office Address c/o FUJITSU TERMINAL SYSTEMS LIMITED	
		8-3, TONYAMACHI 1-CHOME, MAEBASHI, GUNMA 371-0855 JAPAN	
第四共同発明者		Full name of fourth joint inventor, if any	
第四発明者の署名	日付	Fourth inventor's signature	Date
住所		Residence	
国籍		Citizenship	
私書箱		Post Office Address	
第五共同発明者		Full name of fifth joint inventor, if any	
第五発明者の署名	日付	Fifth inventor's signature	Date
住所		Residence	
国籍		Citizenship	
私書箱		Post Office Address	
第六共同発明者		Full name of sixth joint inventor, if any	
第六発明者の署名	日付	Sixth inventor's signature	Date
住所		Residence	
国籍		Citizenship	
私書箱		Post Office Address	

**List of attorneys and/or agents**

James E. Armstrong, III, Reg. No. 18,366; William F. Westerman, Reg. No. 29,988; Ken-Ichi Hattori, Reg. No. 32,861; Le-Nhung McLeland, Reg. No. 31,541; Ronald F. Naughton, Reg. No. 24,616; John R. Pegan, Reg. No. 18,069; William G. Kratz, Jr., Reg. No. 22,631; James P. Welch, Reg. No. 17,379; Albert Tockman, Reg. No. 19,722; Mel R. Quintos, Reg. No. 31,898; Donald W. Hanson, Reg. No. 27,133; Stephen G. Adrian, Reg. No. 32,878; William L. Brooks, Reg. No. 34,129; John F. Carney, Reg. No. 20,276; Edward F. Welsh, Reg. No. 22,455; Patrick D. Muir, Reg. No. 37,403; Gay A. Spahn, Reg. No. 34,978; John P. Kong, Reg. No. 40,054; and Luke A. Kilyk, Reg. No. 33,251.